SONY

HD CAMERA ADAPTOR

HDCA-701

HDCAM

MAINTENANCE MANUAL
1st Edition
Serial No. 10001 and Higher (J)
Serial No. 30001 and Higher (UC)

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

For the customers in the U.S.A. and Canada

RECYCLING NICKEL-CADMIUM BATTERIES

Nickel Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest point for collection, recycling or proper disposal.
Note: In some areas the disposal of nickel cadmium batteries in household or business trash may be prohibited.

RBRC (Rechargeable Battery Recycling Corporation) advises you about spent battery collection by the following phone number.

Call toll free number: 1-800-822-8837
(United States and Canada only)

Caution: Do not handle damaged or leaking nickel-cadmium batteries.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for HD CAMERA ADAPTOR HDCA-701. This manual is intended for use by service engineers and is provided the information required for the attachment, the maintenance information and the information that premise the service based the component parts.

Contents

This manual is organized by the following sections.

Section 1 Service Overview
This section is described about the information about connection, the switch setting, and the replace of main parts.

Section 2 Electrical Alignment
This section is described about the electrical adjustment.

Section 3 Spare Parts
This section is described about the exploded views, and the parts list.

Section 4 Semiconductor Pin Assignments
This section is described about the pin assignments of semiconductor.

Section 5 Block Diagrams
This section is described about the overall block diagram, and the block diagrams.

Section 6 Schematic Diagrams
This section is described about the frame wiring, and the schematic diagrams.

Section 7 Board Layouts
This section is described about the board layouts.

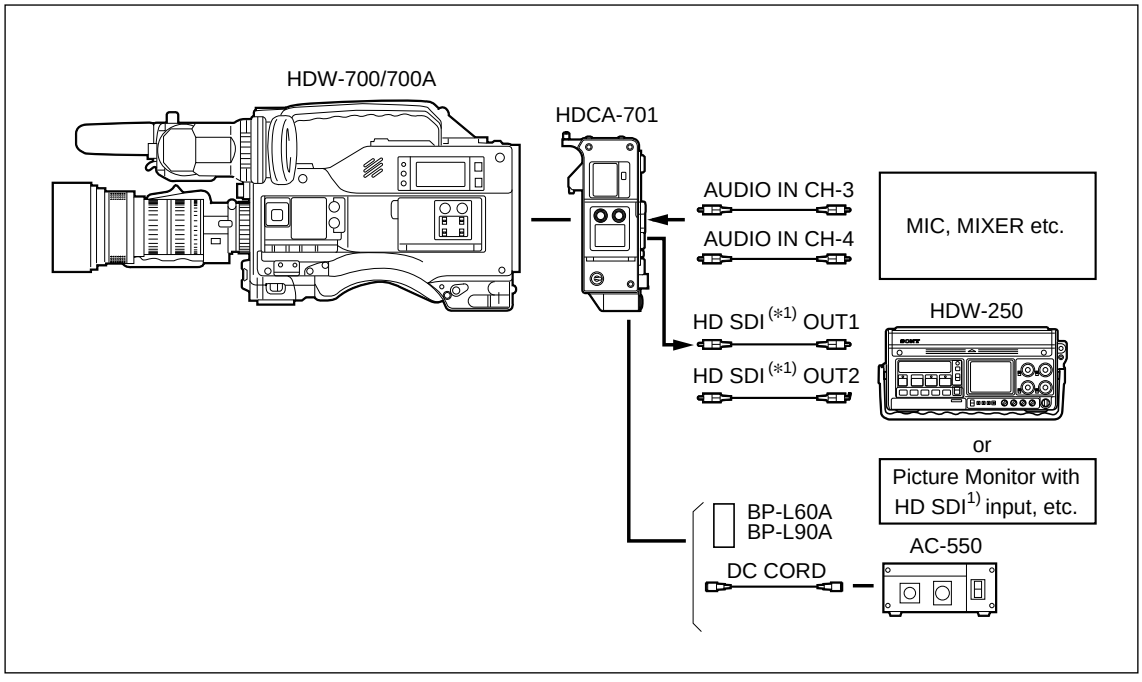
Relative manual

The following manual is prepared for HDCA-701.

- **Operation Manual (Supplied with HDCA-701)**
  This manual is described about the overview, the locations and functions of parts and controls, and the specifications.

Section 1
Service Overview

1-1. System Configuration



1-2. Matching Connectors/Cables

When external cables are connected to the connector on the outside panel during maintenance, the hardware listed below (or the equivalents) must be used.

Note

Be sure to use the 5C-FB coaxial cable for HD SDI (*1) OUT 1 and 2.

Panel indication	Matching cable connector/cable	
	Connector	Sony part No.
HD SDI (*1) OUT 1, 2	BNC (75 Ω) 5C-FB coaxial cable	1-564-742-11
AUDIO IN CH-3, 4	XLR 3-pin, MALE	1-508-084-00
AUDIO OUT	XLR 5-pin, FEMALE	1-508-370-11
DC IN	XLR 4-pin, FEMALE	1-508-362-00
DC OUT	ROUND TYPE 4P, MALE	1-566-425-11

(*1) : Serial Digital Interface

1-3. Connector Input/Output Signals

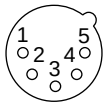
INPUT

AUDIO IN CH-3, 4	−60 dBu/+4 dBu (0 dBu = 0.775 Vrms)

OUTPUT

AUDIO OUT	0 dBu (600 Ω terminated)
HEADPHONE OUT	8 Ω load, −26 dBu
HD SDI OUT 1, 2	75 Ω terminated, 0.8 V p-p, 1.485 Gbps or 1.485/1001 Gbps

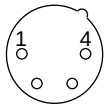
AUDIO OUT: XLR, 5-pin (male)



<External view>

Pin No.	Signal
1	GND
2	L CH (X)
3	L CH (Y)
4	R CH (X)
5	R CH (Y)

DC IN: XLR, 4-pin (male)



<External view>

Pin No.	Signal
1	UNREG GND
2	—
3	—
4	EXT DC (+) 12 V (10.5 – 17V)

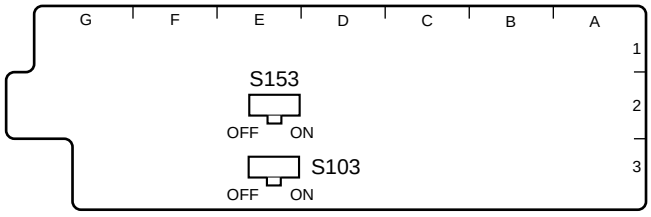
DC OUT: DIN, 4-pin (female)

<External view>

Pin No.	Signal
1	UNREG GND
2	—
3	—
4	DC OUT

1-4. Setting of Switches on the Board

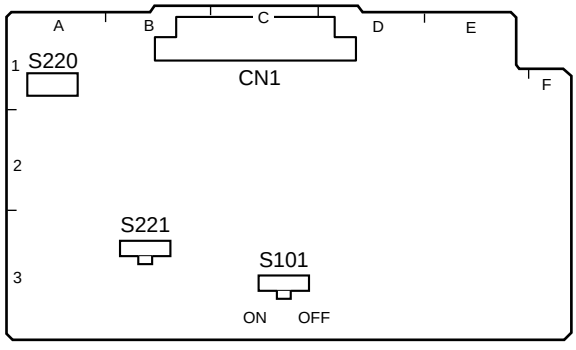
1-4-1. AD-119 board



B side

Ref No.	Name	Description	Factory setting
S103	CH-3 LIM ON-OFF	Selects whether to turn on or off the limiter in the CH-3 audio input stage. ON : CH-3 Audio INPUT LIMITER ON OFF : CH-3 Audio INPUT LIMITER OFF	OFF
S153	CH-4 LIM ON-OFF	Selects whether to turn on or off the limiter in the CH-4 audio input stage. ON : CH-4 Audio INPUT LIMITER ON OFF : CH-4 Audio INPUT LIMITER OFF	OFF

1-4-2. DA-140 board



A side

Ref No.	Name	Description	Factory setting
S1	—	Factory use	All OFF
S101	OUTPUT LIM ON-OFF	Selects whether to turn on or off the output limiter. ON : Audio OUTPUT LIMITER ON OFF : Audio OUTPUT LIMITER OFF	ON
S220	—	Factory use	1 to 3 : OFF 4 : ON
S221	POWER ON BLOCK	Selects whether to power in the audio or the SDI block when the power switch is selected to SEL. AUDIO ON : Audio block only SDI ON : SDI block only*1	AUDIO

*1 : No display on the audio level meter LCD when only the SDI block is powered .

1-5. Notes on System Connection

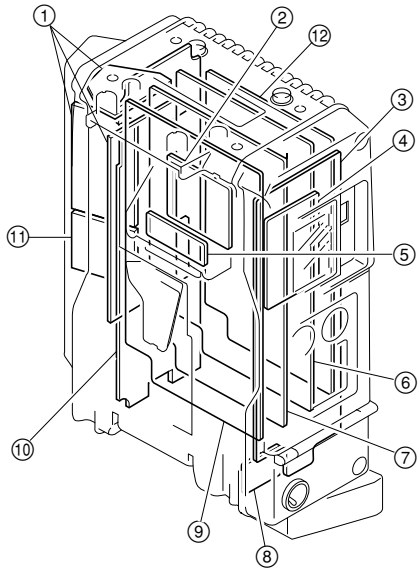
It is necessary to check the following items in the HDW-700/700A, when connecting to the HDCA-701.
Perform the measures shown in the list, when the use conditions are not matched.
For more details, please contact to your local Sony's sale/service office.

Note

If the serial number of unit is as follows, be sure to upgrade the ROMs regardless of the version.
HDW-700(J) : S/N10001 and higher
HDW-700(UC) : S/N10001 and higher
HDW-700A(J) : S/N10001 through 10155
HDW-700A(UC) : S/N10001 through 10135

Check item	Use condition	Measure
HDW-700 of no "1080" upgraded	Check the ROM version by ROM VERSION in DIAG DISP menu of the viewfinder. IF BOARD: 1.30 or higher, 1.99 or lower SY BOARD: 1.30 or higher SV BOARD: 1.10 or higher TC BOARD: 1.20 or higher	Replace IF and TC ROMs, then update the version of SY and SV.
HDW-700 or HDW-700A of "1080" upgraded	Check the ROM version by ROM VERSION in DIAG DISP menu of the viewfinder. IF BOARD: 2.30 or higher SY BOARD: 1.30 or higher SV BOARD: 1.10 or higher TC BOARD: 1.20 or higher	

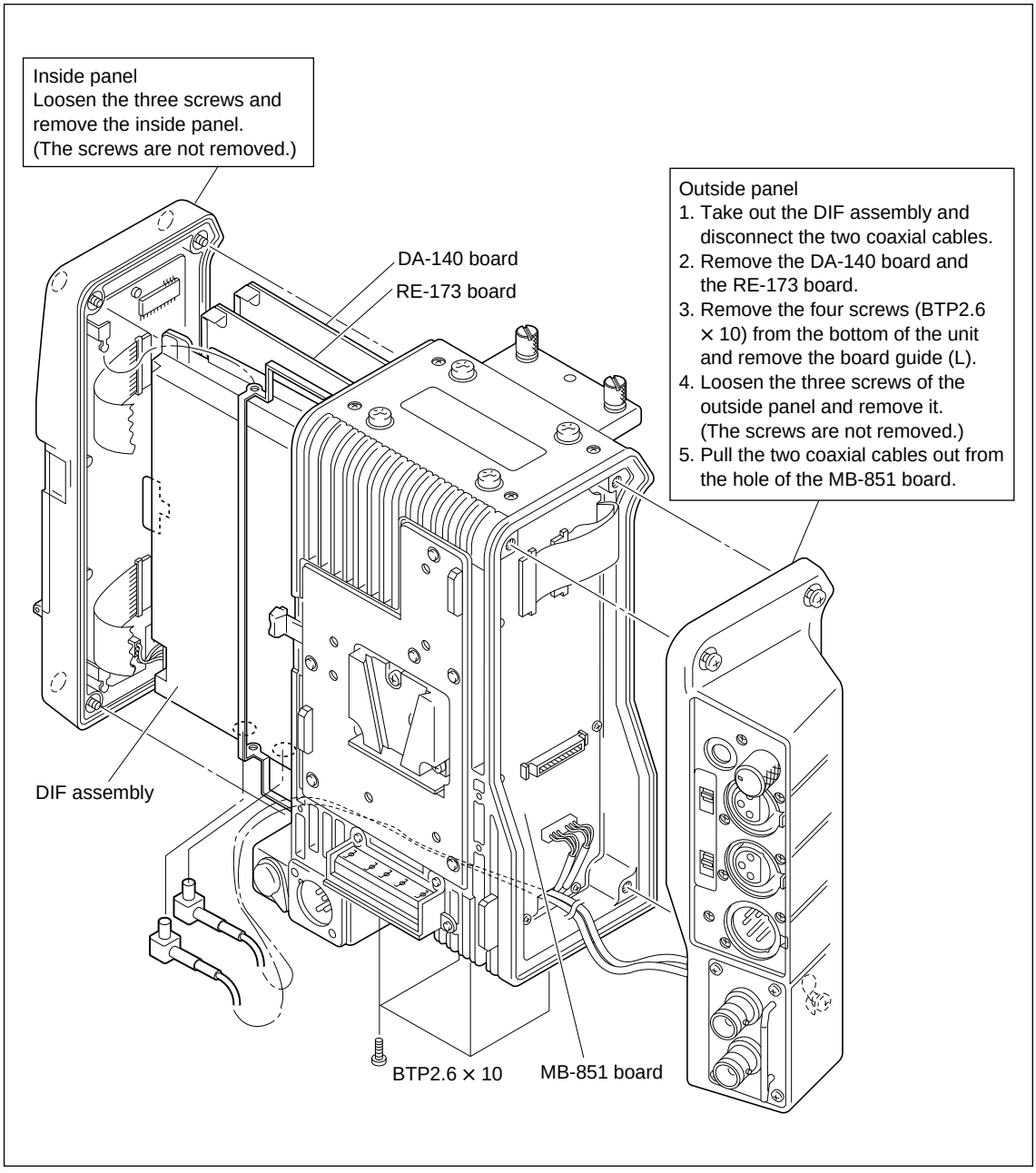
1-6. Board Layout



Board name	Circuit function	Location No.
AD-119	A/D converter	3
CN-1556	Connector	5
CN-1233	Connector	1
CN-1339	Connector	11
DA-140	D/A converter, System control	9
DIF-87	Digital interface	6
DP-234	Display	4
HN-261	Harness	2
MB-851	Mother board	10
RE-173	Regulator, DC-DC converter	7
SW-819	Switch	8
TX-68	HD SDI TX module	12

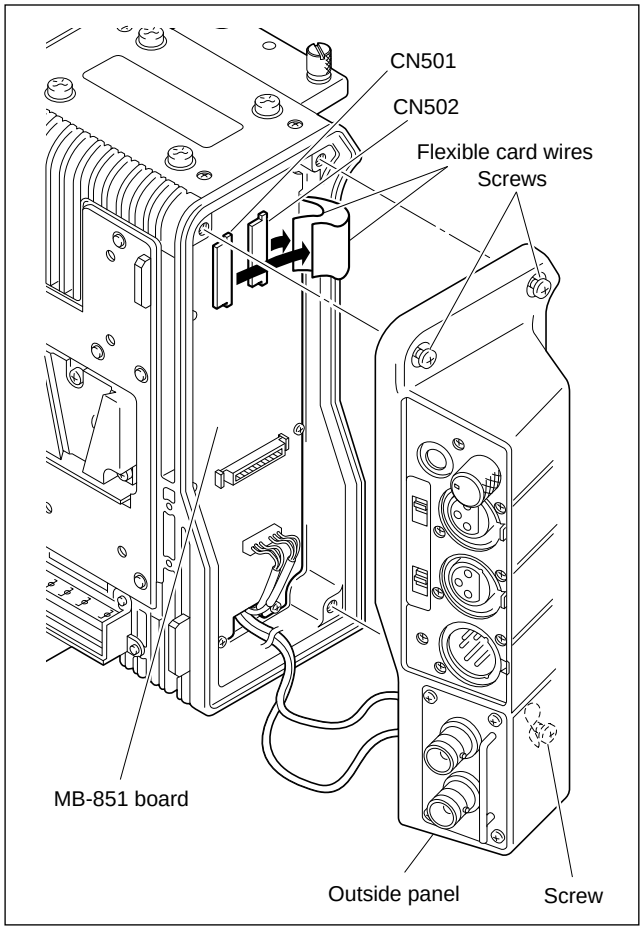
1-7. Replacement of Main Parts

1-7-1. Removal of cabinet

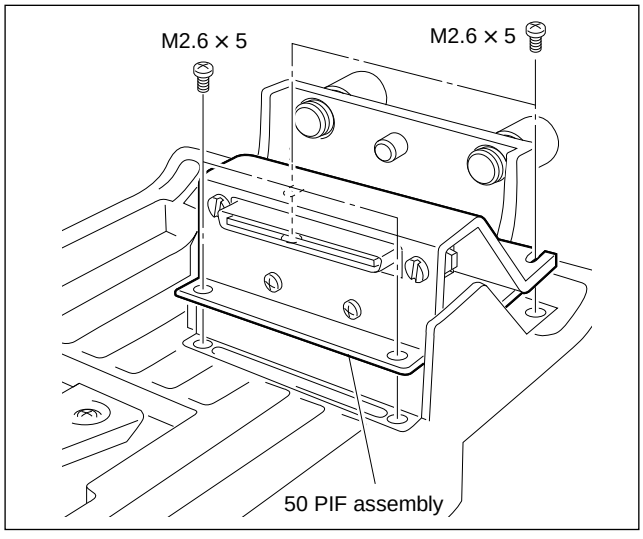

Inside panel
Loosen the three screws and remove the inside panel. (The screws are not removed.)
Outside panel
1. Take out the DIF assembly and disconnect the two coaxial cables.
2. Remove the DA-140 board and the RE-173 board.
3. Remove the four screws (BTP2.6 × 10) from the bottom of the unit and remove the board guide (L).
4. Loosen the three screws of the outside panel and remove it. (The screws are not removed.)
5. Pull the two coaxial cables out from the hole of the MB-851 board.
DA-140 board
RE-173 board
DIF assembly
BTP2.6 × 10
MB-851 board

1-7-2. Replacement of 50-pin connector

1. Loosen the three screws and open the outside panel.
2. Release the locks of CN501 and CN502 on the MB-851 board and pull out the flexible card wires. (Refer to Section 1-7-3.)



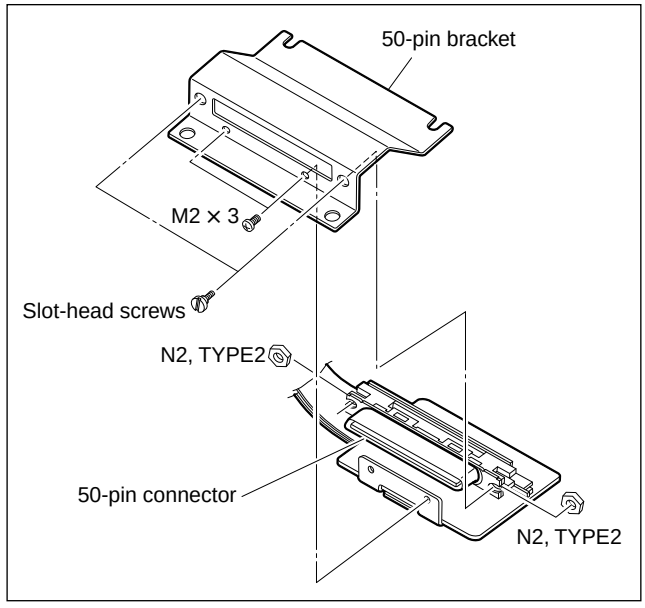
3. Remove the four screws and remove the 50 PIF assembly together with the flexible card wire from the unit.



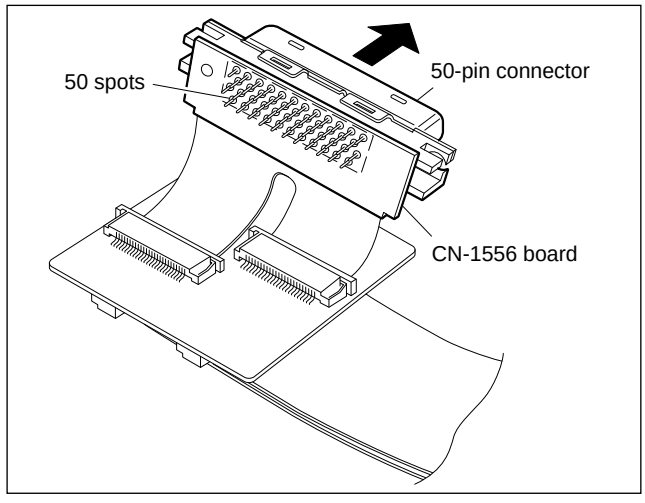
4. Remove the two slot-head screws and the two screws (M2 × 3) and remove 50-pin connector.

Note

Do not lose the nuts on both sides of the 50-pin connector.



5. Desolder from the CN-1556 board and remove the 50-pin connector.
6. Solder the new 50-pin connector on the CN-1556 board.



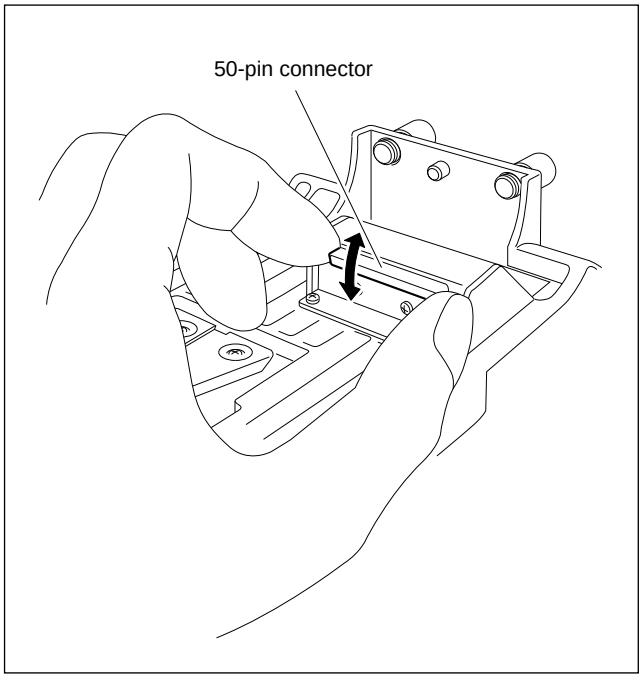
7. Install the 50 PIF assembly in the reverse order of steps 3 through 6.

Note

When installing the 50 PIF assembly, pull the two flexible card wires toward the outside panel from the clearance between the unit and the MB-851 board.

8. Connect the two flexible card wires to CN501 and CN502 on the MB-851 board. (Refer to Section 1-7-3.)

9. Install the outside panel with the three screws.
10. Check to move the 50-pin connector a little in the direction of the arrow by hand.



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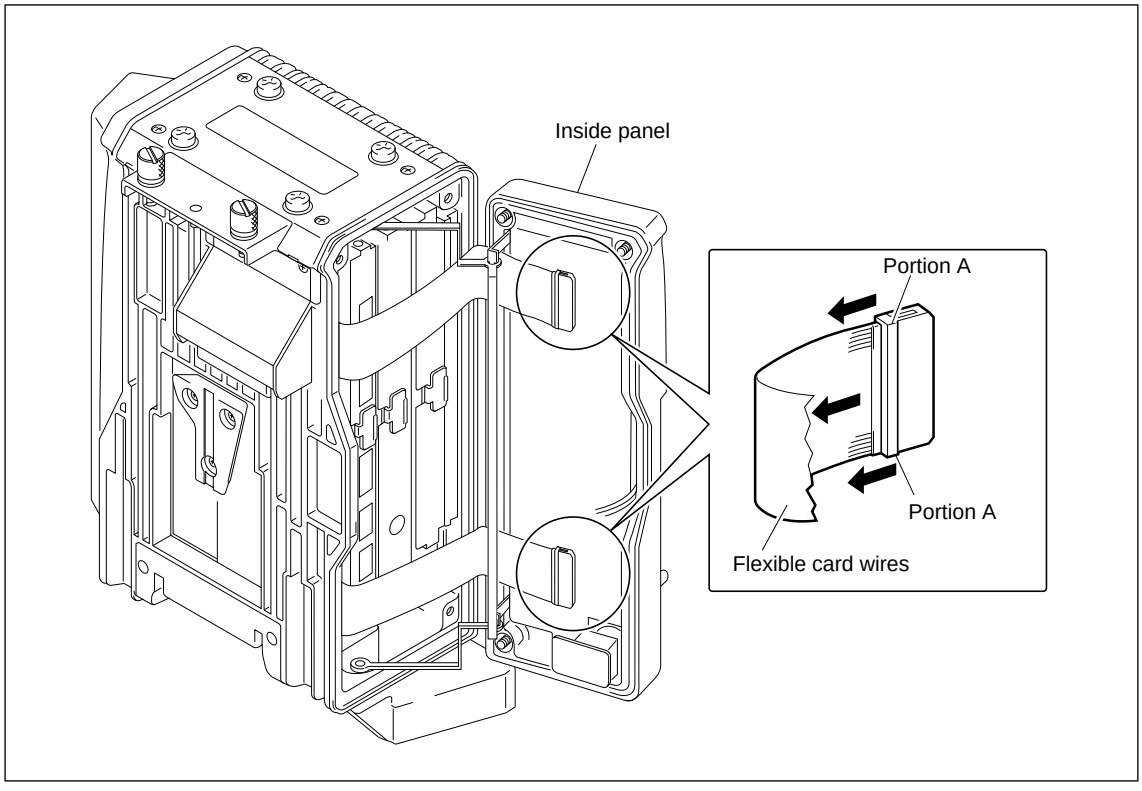
1-7-3. Disconnecting/Connecting of flexible card wires on the AD-119 board

The two flexible card wires are used between AD-119 board and MB-851 board.
Handle them carefully as they break easily.

Disconnecting

1. Turn the power OFF.
2. Slide the portion A in the indicated direction of the arrows, release the locks, and pull out the flexible card wires.



Connecting

Note

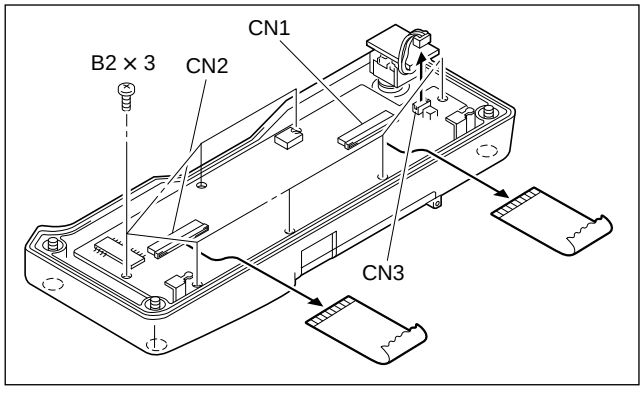
- Do not insert the flexible card wire crookedly.
- Check that there is no dirt, dust and the like at the conduction area of the flexible card wires.

1. Slide the portion A in the indicated direction of the arrows and insert the flexible card wires to each connector with the conduction area of it in a downward direction.
2. Slide the portion A in the reverse direction of the arrows and lock each connector.

1-7-4. Replacement of AD-119 Board

Removal

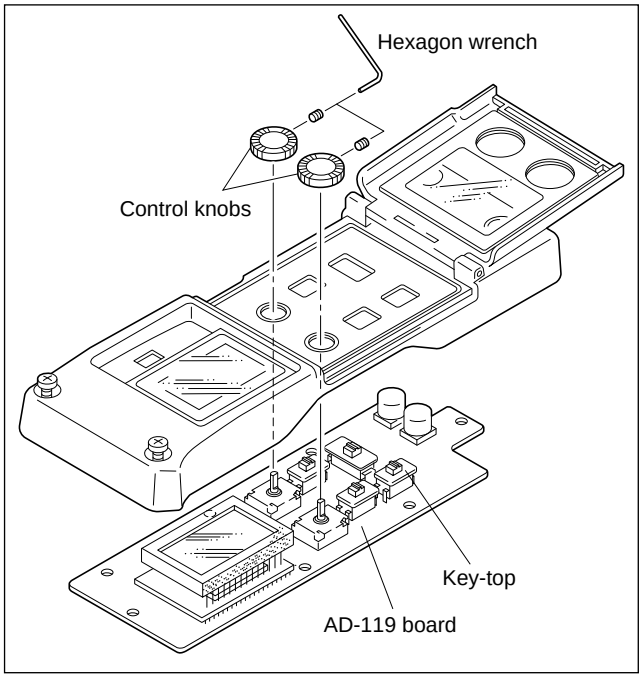
1. Remove the inside panel. (Refer to the section 1-7-1.)
2. Disconnect the flexible card wires CN1,2 and connector CN3. (Refer to the section 1-7-3.)
3. Remove the seven screws fixing the ADA-119 board.



4. Remove the two screws fixing the control knob and remove the two control knobs from the inside panel.
5. Remove the AD-119 board from the inside panel.

Note

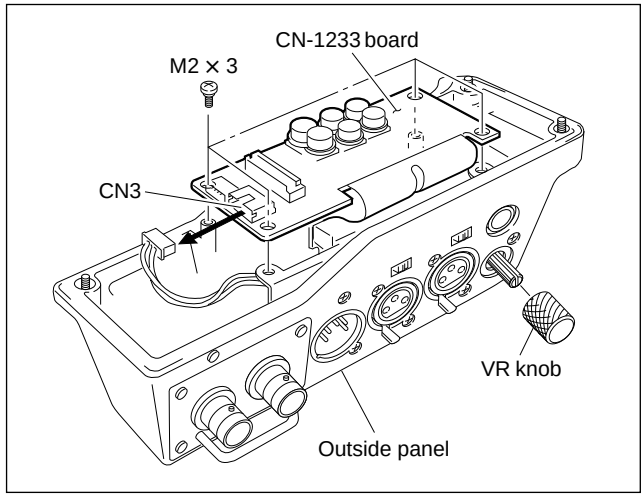
After installing the AD-119 board, check the key-tops are installed with it.



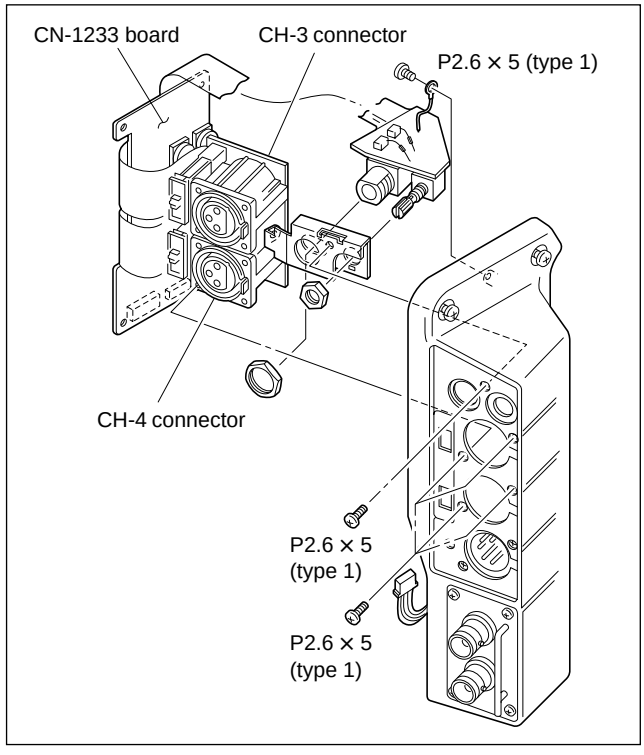
1-7-5. Removal of CN-1233 Board

The three flexible card wires are used on the CN-1233 board. Handle them carefully as they break easily.

1. Remove the outside panel. (Refer to the section 1-7-1.)
2. Remove the VR knob and disconnect the connector CN3 on the CN-1233 board.
3. Remove the four screws.

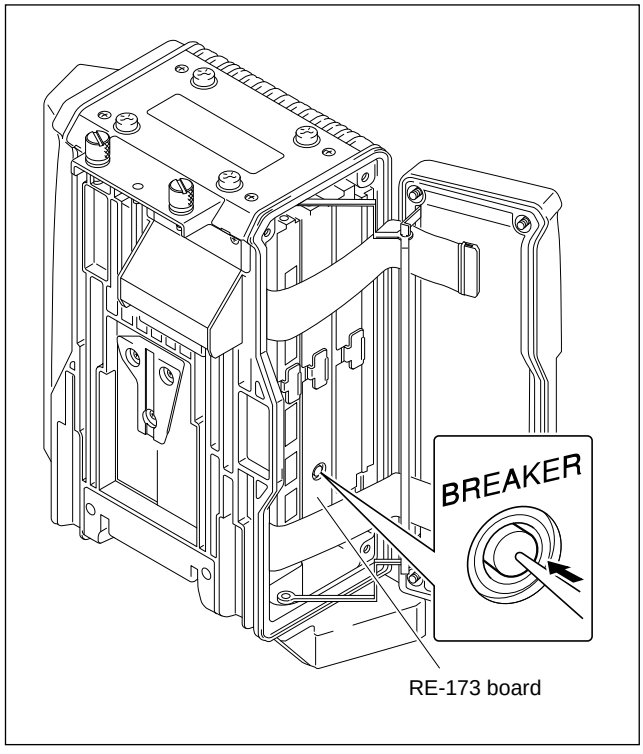


4. Remove the four screws fixing the connectors CH-3 and CH-4.
5. Remove the two screws and remove the CN-1233 board from the outside panel



1-8. Power Circuit Breaker

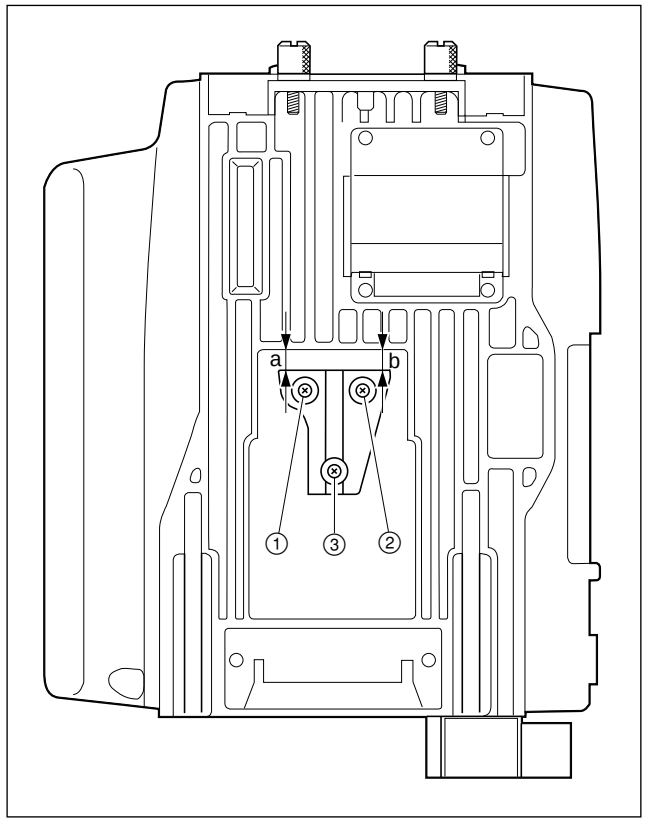
When an overcurrent flows in the unit, the breaker operates and the power is turned off.
If the breaker operates, eliminate the cause of the flow of the overcurrent, and push the button.



1-9. Notes on Replacement of V Shoe

The installing position of V shoe influences the precisely position when installing HDCA-701 to HDW-700/700A. Tighten the three screws sequentially in accondance with the figure when installing the V shoe on the main chassis. When the V shoe is replaced, check that the specification is met.

Specification: a − b = 0 ± 0.1 mm



1-10. Notes on Spare Parts

1. Safety Related Components Warning

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP(Supply Code) column of the spare parts list may be not stocked. Therefore, the delivery date will be delayed.

1-11. Fixtures

Name	Sony Part No.	Use
BC-155 extension boards	J-6421-550-A	Refer to *1
EX-410 extension boards	J-6420-260-A	Refer to *2

*1 : Use for extending the DA-140 board and RE-173 board.
*2 : Use for extending the DIF-87 board.

1-12. Note on Replacing the CPU

IC222 on the DA-140 board is a CPU with a built-in ROM. The program name of this CPU is written in suffix of its name.
The suffix will be changed in accordance with the change of version. Be sure not to use unprogrammed CPU.

Secton 2
Electrical Alignment

2-1. General Information for Electrical Adjustment

2-1-1. Notes for Adjustment

- When extracting and/or inserting the boards, be sure to turn OFF the power of the HDCA-701 and HDW-700/700A previously.
- Take a warmup about 10 minutes before launching the adjustment.

2-1-2. Peripheral and Tools

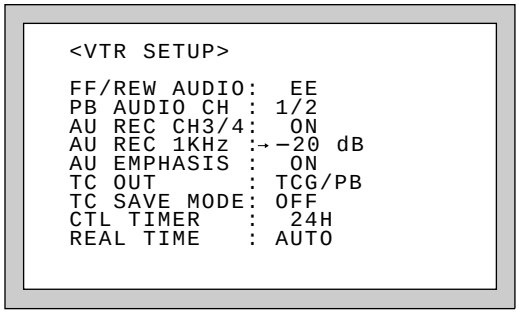
Fixtures	Model
HDCAM camcorder	HDW-700/700A (Conformed to HDCA-701)
AC adapter or Battery	Sony AC-550/550CE or equivalent
Oscilloscope	Tektronix 2465B or equivalent
Audio analyzer	Tektronix AA501A (OP.02) or equivalent
Audio oscillator	Tektronix SG-5010 or equivalent
Frequency counter	Advantest TR5821AK orequivalent
Extension board BC-155	Sony part No. : J-6421-550-A (for adjusting the DA-140 board)

2-2. Audio System Adjustment

2-2-1. D/A Level Adjustment

Preparation

- S101/DA-140 board (C-3) : OFF
- MONITOR switch/inside panel : CH-3/-4
- OUTPUT switch/inside panel (HDW-700/700A) : BARS
- Set the internal test signal generator output to 1 KHz/ −20 dBs with the maintenance menu of HDW-700/ 700A. (Refer to Section 3-2 of HDW-700/700A in the maintenance manual part 1.)


<VTR SETUP>
FF/REW AUDIO: EE
PB AUDIO CH : 1/2
AU REC CH3/4: ON
AU REC 1KHz :→−20 dB
AU EMPHASIS : ON
TC OUT : TCG/PB
TC SAVE MODE: OFF
CTL TIMER : 24H
REAL TIME : AUTO

VF screen

- Extend the DA-140 board by the BC-155 extension board.

Adjustment procedures

1. MONITOR switch/inside panel : MONO (CH-3)

2. Equipment : Audio analyzer
   Test point : AUDIO OUT connector
   Adjustment point : ⊘RV101/DA-140 board (F-2)
   Specification : 0 ±0.2 dBm (600 Ω)

3. MONITOR switch/inside panel : MONO (CH-4)

4. Equipment : Audio analyzer
   Test point : AUDIO OUT connector
   Adjustment point : ⊘RV151/DA-140 board (D-2)
   Specification : 0 ±0.2 dBm (600 Ω)

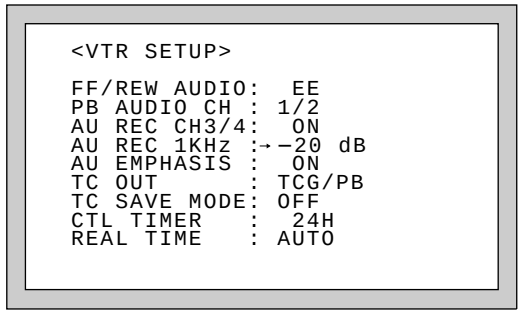
Setting after adjustment

Reset the switches and the setting of internal SG.

2-2-2. Output Limiter Adjustment

Preparation

- S101/DA-140 board (C-3) : ON
- MONITOR switch/inside panel : CH-3/-4
- OUTPUT switch/inside panel (HDW-700/700A) : BARS
- Set the internal test signal generator output to 1 KHz/ −20 dBs with the maintenance menu of HDW-700/ 700A. (Refer to Section 3-2 of HDW-700/700A in the maintenance manual part 1.)


<VTR SETUP>
FF/REW AUDIO: EE
PB AUDIO CH : 1/2
AU REC CH3/4: ON
AU REC 1KHz :→−20 dB
AU EMPHASIS : ON
TC OUT : TCG/PB
TC SAVE MODE: OFF
CTL TIMER : 24H
REAL TIME : AUTO

VF screen

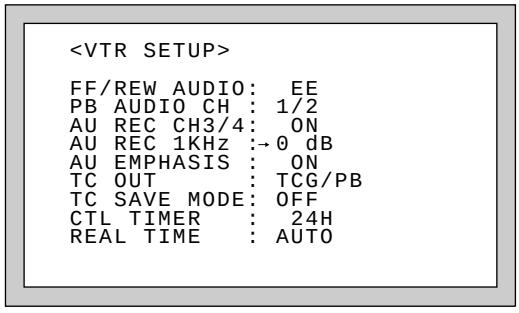
- Extend the DA-140 board by the BC-155 extension board.

Adjustment procedures

1. MONITOR switch/inside panel : MONO (CH-3)

2. Equipment : Audio analyzer
   Test point : AUDIO OUT connector
   Specification : 0 ±0.2 dBm (600 Ω)

3. Set the internal test signal generator output to 1 KHz/ 0 dBs with the maintenance menu of HDW-700/700A. (Refer to Section 3-2 of HDW-700/700A in the maintenance manual part 1.)

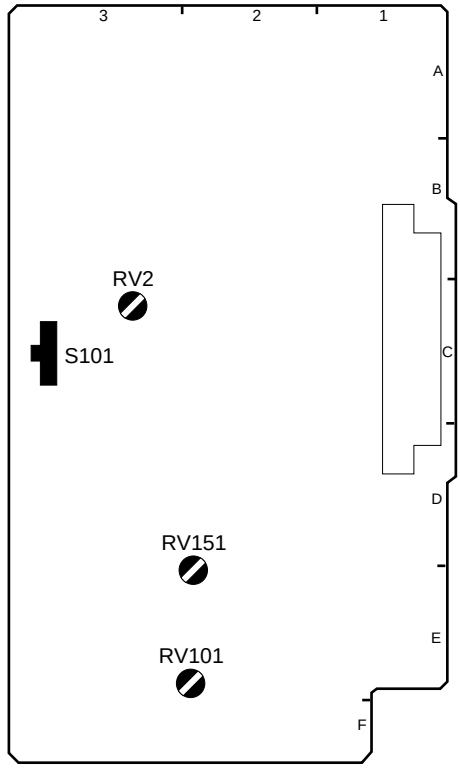

<VTR SETUP>
FF/REW AUDIO: EE
PB AUDIO CH : 1/2
AU REC CH3/4: ON
AU REC 1KHz :→0 dB
AU EMPHASIS : ON
TC OUT : TCG/PB
TC SAVE MODE: OFF
CTL TIMER : 24H
REAL TIME : AUTO

VF screen

4. Test point : AUDIO OUT connector
   Adjustment point : ⊘ RV2/DA-140 board (C-3)
   Specification : +9.0 ±0.2 dBm (600 Ω)

Setting after adjustment

Reset the switches.



DA-140 Board (A side)

2-2-3. AGC Level Adjustment

Preparation

- S103/AD-119 board (E-3) : OFF
- S153/AD-119 board (E-2) : OFF
- LINE/MIC CH-3 switch/outside panel : LINE
- MONITOR switch/inside panel : CH-3/-4 and MONO (CH-3)
- AUDIO SELECT CH-3 switch/inside panel : AUTO

Adjustment procedures

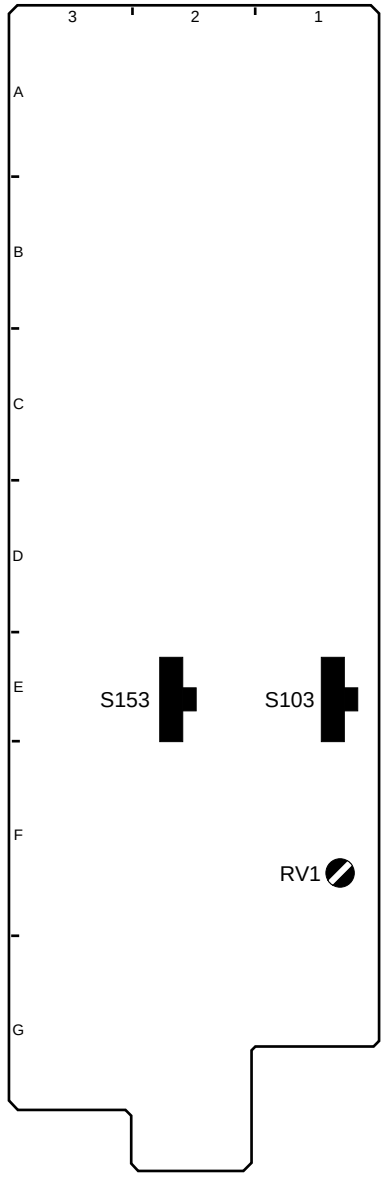
1. Connect the output of audio oscillator (SG-5010) to the AUDIO IN CH-3 connector of HDCA-701.
   Test point : AUDIO IN CH-3 connector
   Specification : 1 kHz, +4.0 dBu (*1)

2. Equipment : Audio analyzer
   Test point : AUDIO OUT connector
   Adjustment point : ⊘RV1/AD-119 board (F-3)
   Specification : 0 ±0.2 dBm (600 Ω)

(*1) : As AUDIO IN is of high impedance, feed −1.7 dBu if the output impedance of the audio analyzer is 600 Ω.

Setting after adjustment

Reset the switches.



AD-119 Board (B side)

Section 3
Spare Parts

3-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Destination Representation

The part indicated “For J/UC” in the spare parts list is used in the unit written below.

For J: The part is used in a unit for Japan.
For UC: The part is used in a unit for the U.S.A. and Canada.

3-1. 補修部品注意事項

1. 安全重要部品

⚠警告

⚠印のついた部品は安全性を維持するために重要な部品です。したがって，交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

ソニーから供給する補修用部品は，セットに使われているものと異なることがあります。
これは部品の共通化，改良等によるものです。
部品表には現時点での共通化された補修用部品が記載されています。

3. 部品の在庫

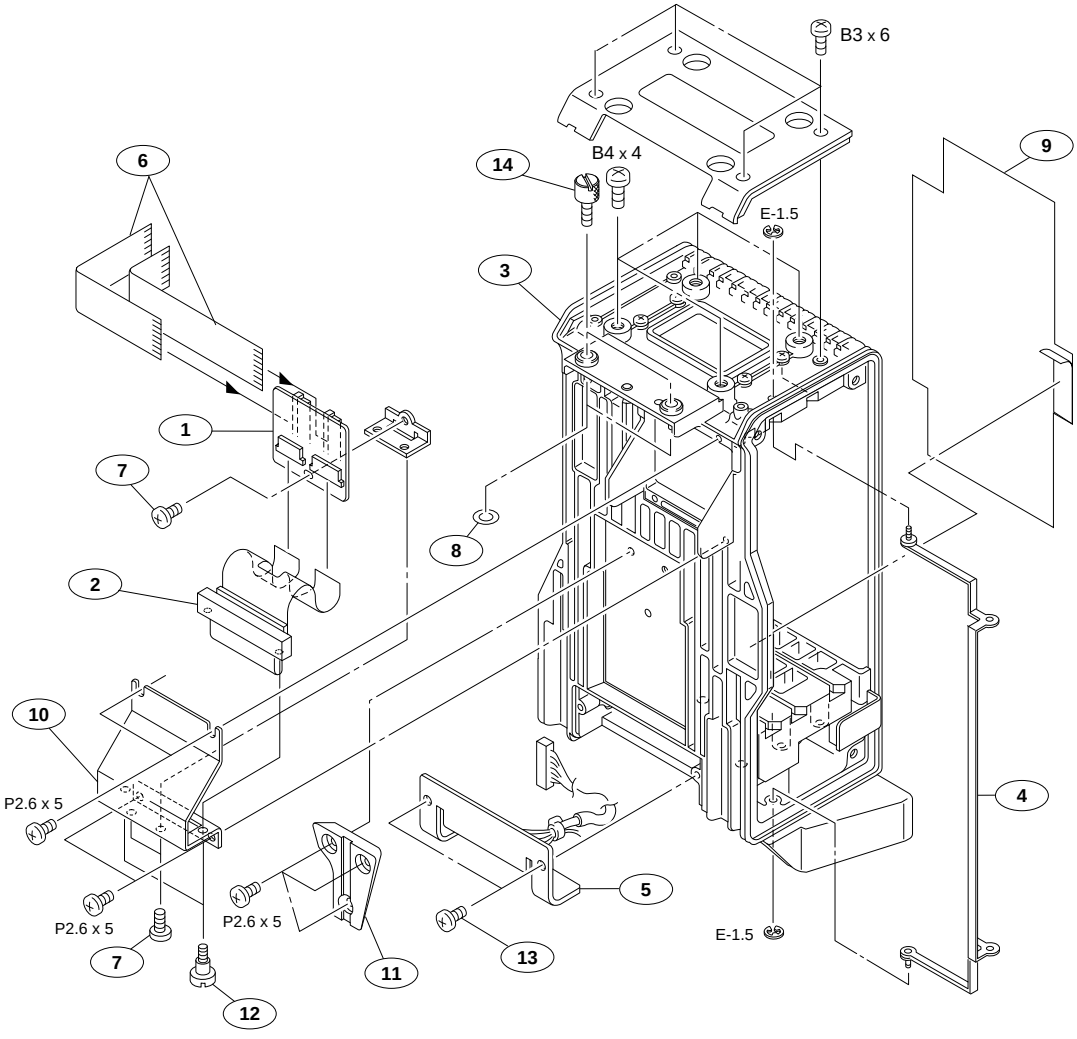
部品表のSP (Supply code) 欄に“o”で示される部品は在庫していないことがあり，納期が長くなることがあります。

4. 仕向区分の表記

部品表中，下記表示のある部品は，その仕向で使用している部品です。

For J: 日本向けモデルに使用
For UC: USAおよびカナダ向けモデルに使用

3-2. Exploded Views



No.	Part No.	SP	Description
1	A-8322-907-A	o	MOUNTED CIRCUIT BOARD, HN-261
2	A-8322-908-A	o	MOUNTED CIRCUIT BOARD, CN-1556
3	X-3605-559-2	o	CHASSIS SUB ASSY, MAIN
4	X-3678-500-1	o	FRAME ASSY, HINGE
5	1-774-841-11	s	CONNECTOR, BATTERY
6	1-776-446-11	o	CABLE, FLEXIBLE FLAT (20 CORE)
7	3-370-749-01	s	PRECISION (P2X3) TYPE1
8	3-601-846-01	s	RING O
9	3-603-808-01	o	SHEET, PROTECTION
10	3-622-633-01	o	BRACKET, 50PIN
11	3-686-350-02	o	SHUE (3)
12	3-686-367-02	s	SCREW, STEP
13	3-694-181-02	s	TYPE1, AROCK PRECISION +P2.6X5
14	3-717-914-01	s	SCREW, DOCKING

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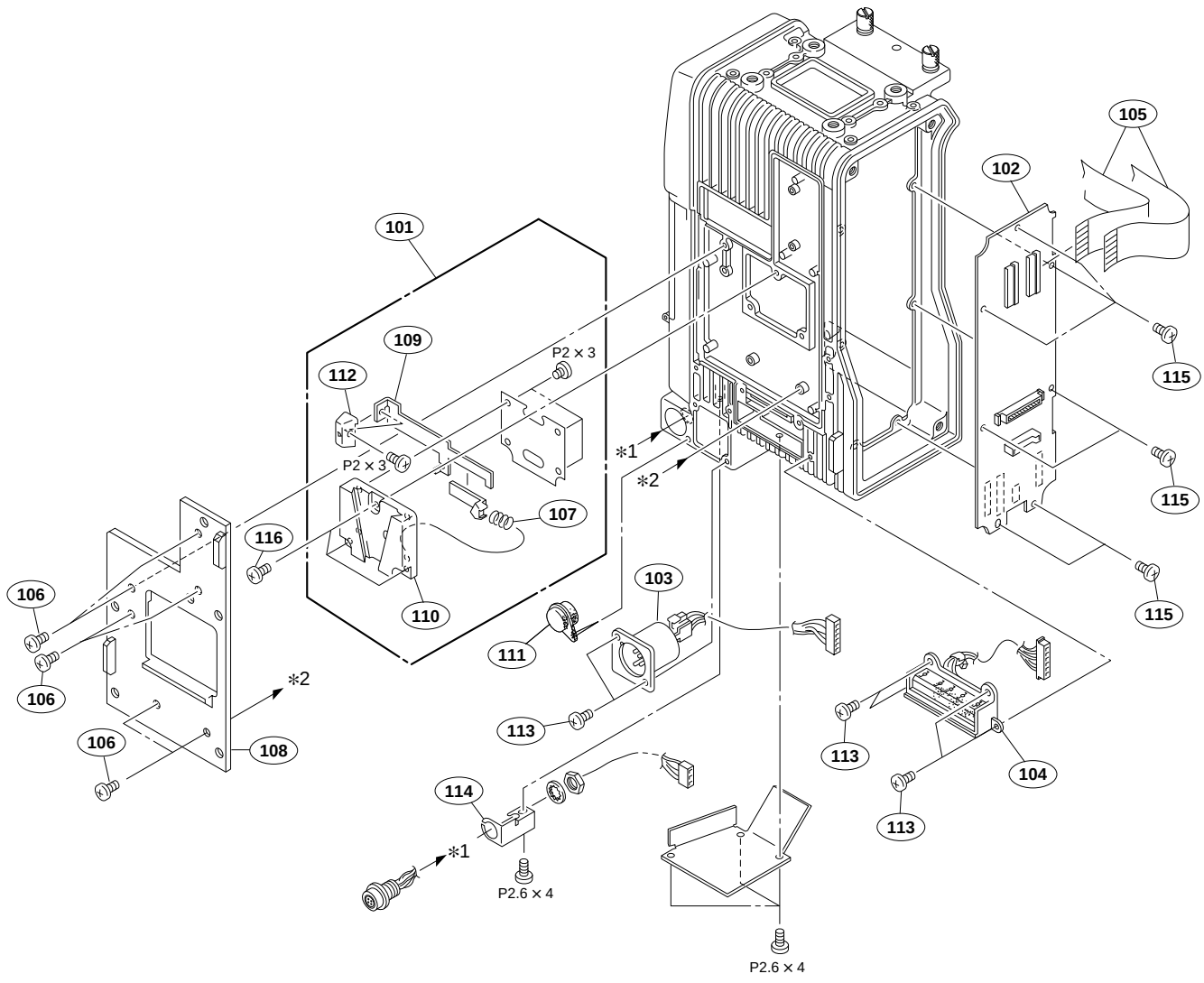
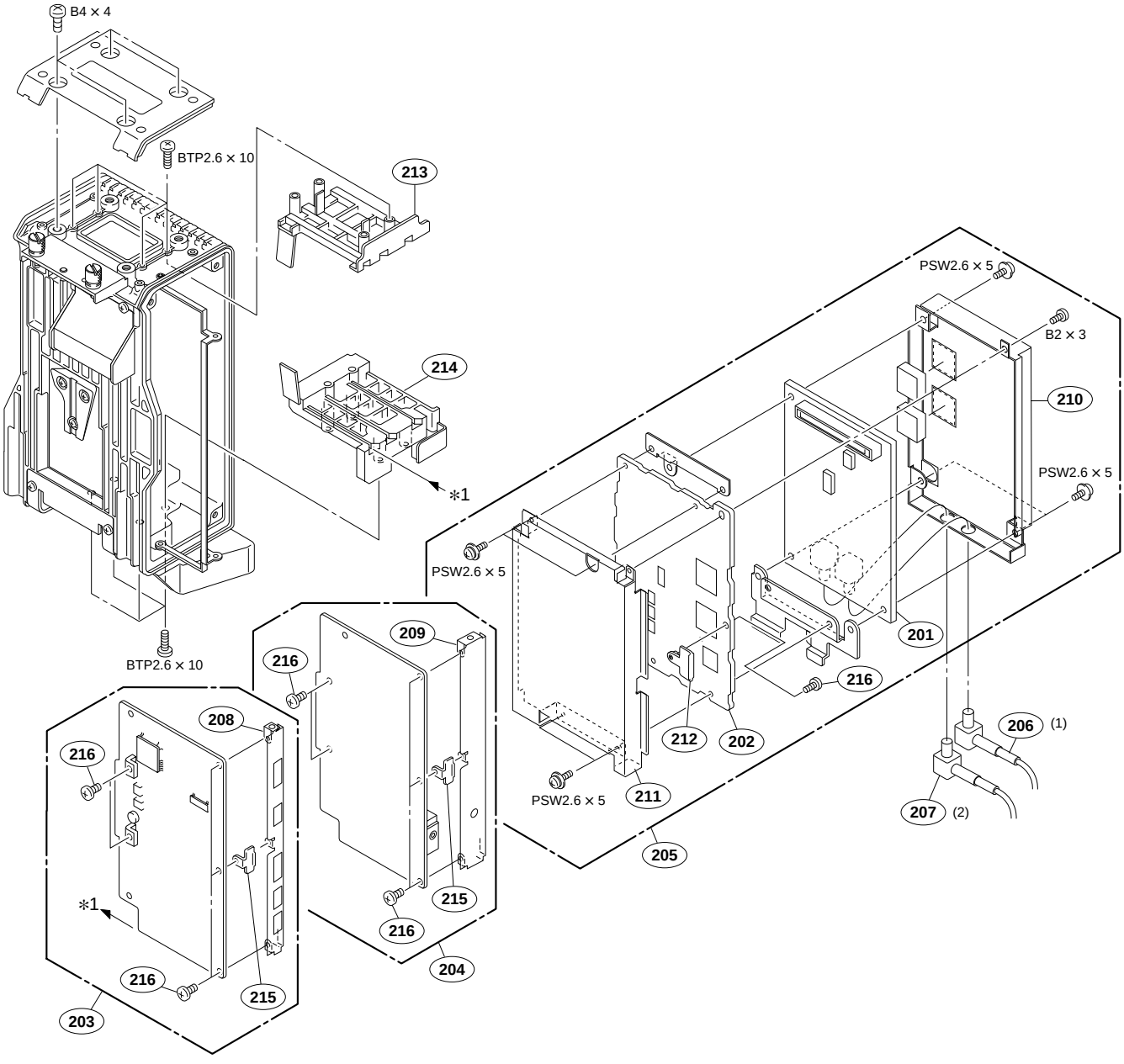
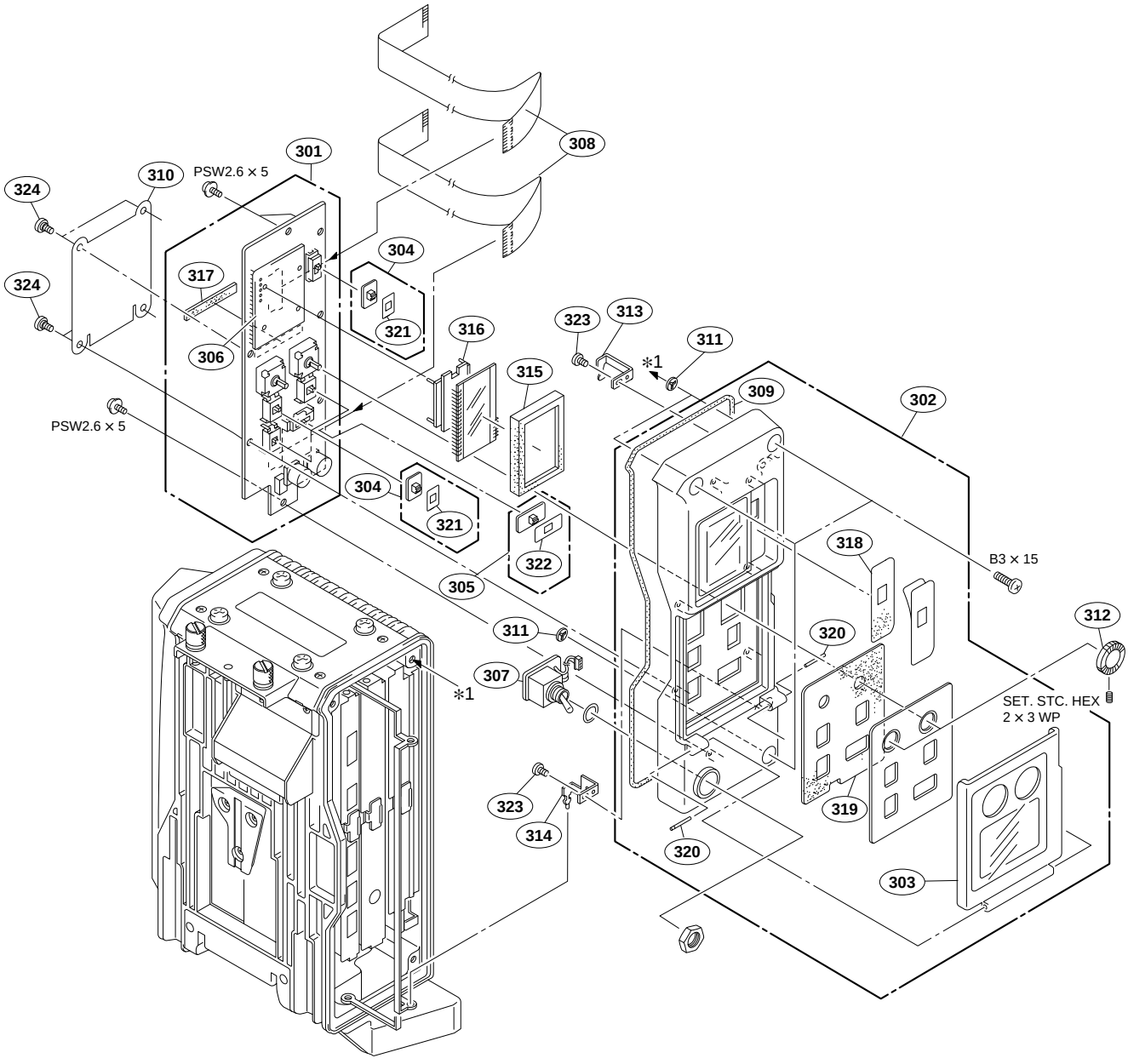


No.	Part No.	SP	Description
101	A-8278-025-C	s	MOUNT, V ASSY
102	A-8322-906-A	o	MOUNTED CIRCUIT BOARD, MB-851
103	1-564-603-31	s	CONNECTOR (WITH DC SW) 4P
104	1-766-377-12	s	CONNECTOR, BATTERY
105	1-776-446-11	s	CABLE, FLEXIBLE FLAT (20 CORE)
106	3-370-749-01	s	PRECISION (+P2X3) TYPE1
107	3-679-648-02	o	SPRING, COMPRESSION
108	3-679-669-05	o	SPACER
109	3-679-688-02	o	LEVER, RELEASE
110	3-679-690-02	o	MOUNT, V
111	3-680-269-01	s	RUBBUR (DO), DROP PROTECTION
112	3-680-952-01	o	KNOB, RELEASE LEVER
113	3-694-181-02	s	TYPE1, AROCK PRECISION +P2.6X5
114	3-695-267-01	o	BRACKET, DC-OUT
115	3-729-076-01	s	SCREW (M2) (TYPE1)
116	3-742-074-01	s	SCREW (+B 3X6)

Main Chassis-3

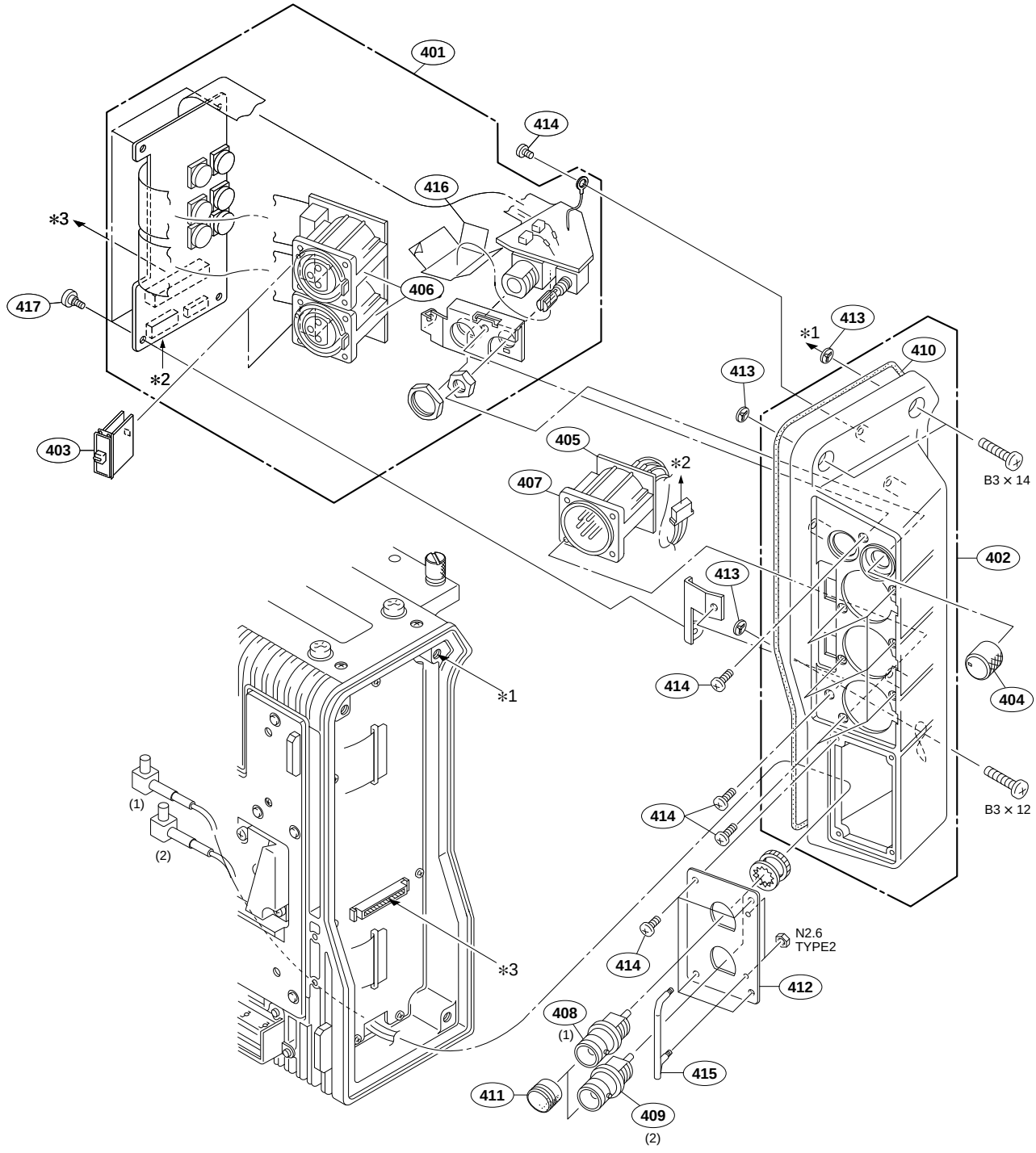


No.	Part No.	SP	Description
201	A-8322-910-A	o	MOUNTED CIRCUIT BOARD, TX-68B
202	A-8322-911-A	o	MOUNTED CIRCUIT BOARD, DIF-87
203	A-8322-912-A	o	MOUNTED CIRCUIT BOARD, DA-140
204	A-8322-913-A	o	MOUNTED CIRCUIT BOARD, RE-173
205	A-8322-940-B	o	DIF ASSY
206	1-791-549-11	o	CABLE ASSY, COAXIAL
207	1-791-550-11	o	CABLE ASSY, COAXIAL
208	3-622-662-01	o	PLATE (DA), ORNAMENTAL
209	3-622-663-01	o	PLATE (RE), ORNAMENTAL
210	3-623-310-01	o	PLATE (TX), SHIELD
211	3-623-311-01	o	PLATE (DIF), SHIELD
212	3-679-662-01	o	RING, PULL
213	3-695-282-01	o	GUIDE (UPPER), PWB
214	3-695-861-01	o	GUIDE (LOWER), PWB
215	3-724-753-01	o	RING
216	3-729-061-01	s	SCREW (M2) (TYPE1)



No.	Part No.	SP	Description
301	A-8272-687-A	o	MOUNTED CIRCUIT BOARD, AD-119
302	X-3605-561-2	o	PANEL SUBASSY, INSIDE
303	X-3605-562-1	o	DOOR ASSY, SW
304	X-3678-125-1	s	KNOB(2 POSI) ASSY, SW
305	X-3678-126-1	s	KNOB(3 POSI) ASSY, SW
306	1-659-725-11	o	PRINTED CIRCUIT BOARD, DP-234
307	1-659-733-11	o	PRINTED CIRCUIT BOARD, SW-819
308	1-791-548-11	o	CABLE, FLEXIBLE FLAT
309	3-190-628-01	s	TUBE, SHIELD
310	3-609-691-01	o	SHEET, PROTECTION
311	3-669-596-00	s	WASHER (2.3), STOPPER
312	3-680-219-02	s	KNOB, VR
313	3-695-258-01	o	HINGE (UPPER)
314	3-695-259-01	o	HINGE (UNDER)
315	3-695-270-01	s	RUBBER, LCD
316	3-695-271-01	o	SPACER, LCD
317	3-695-277-01	o	SPACER, RUBBER
318	3-695-281-01	s	RUBBER (LIGHT), DROP PROTECTION
319	3-695-283-01	s	RUBBER (SW), DROP PROTECTION
320	3-703-357-06	o	PIN, PARALLEL (DIA. 1.6X14)
321	3-717-902-21	o	PLATE, ORNAMENTAL
322	3-717-902-31	o	PLATE, ORNAMENTAL
323	3-729-076-01	s	SCREW (+B) (2X3)
324	3-965-077-01	s	SCREW, SPECIAL (M2)

Out Side Panel



No.	Part No.	SP	Description
401	A-8272-700-A	o	MOUNTED CIRCUIT BOARD, CN-1233 [For UC]
	A-8272-708-A	o	MOUNTED CIRCUIT BOARD, CN-1233A [For J]
402	X-3605-560-2	o	PANEL SUBASSY (J), OUTSIDE [For J]
	X-3605-563-2	o	PANEL SUBASSY (UC), OUTSIDE [For UC]
403	X-3678-131-3	s	KNOB(M)ASSY, SW
404	X-3682-814-0	s	KNOB ASSY, CONTROL
405	1-659-734-11	o	PRINTED CIRCUIT BOARD, CN-1339
406	1-766-385-12	s	CONNECTOR, 3P-XLR TYPE (MALE) [For J]
	1-766-386-12	s	CONNECTOR, 3P-XLR TYPE (FEMALE) [For UC]
407	1-774-795-11	s	CONNECTOR, XLR (RECEPTACLE) 5P

No.	Part No.	SP	Description
408	1-791-549-11	o	CABLE ASSY, COAXIAL
409	1-791-550-11	o	CABLE ASSY, COAXIAL
410	3-190-628-01	s	TUBE, SHIELD
411	3-604-795-01	s	CAP BNC
412	3-622-630-01	o	BRACKET, BNC
413	3-669-596-00	s	WASHER (2.3), STOPPER
414	3-694-181-02	s	TYPE1, AROCK PRECISION +P2.6X5
415	3-695-275-01	o	GUARD, CN
416	3-697-792-01	o	SHIELD, HP
417	3-965-077-01	s	SCREW, SPECIAL (M2)

3-3. Electrical Parts List

AD-119 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8272-687-A	o	MOUNTED CIRCUIT BOARD, AD-119
C1	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C2	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C3	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C101	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C102	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C103	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C104	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C105	1-162-921-11	s	CAPACITOR,CERAMIC 33PF/50V CH
C106	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C107	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C108	1-135-216-11	s	CAPACITOR TANTATUM 10MF/10V
C109	1-135-166-21	s	CAPACITOR TANTAL CHIP 47MF/10V
C110	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C111	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C112	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C113	1-135-259-11	s	CAPACITOR TANTALUM 10MF/6.3VF
C114	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C115	1-135-259-11	s	CAPACITOR TANTALUM 10MF/6.3VF
C116	1-135-166-21	s	CAPACITOR TANTAL CHIP 47MF/10V
C151	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C152	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C153	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C154	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C155	1-162-921-11	s	CAPACITOR,CERAMIC 33PF/50V CH
C156	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C157	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C158	1-135-216-11	s	CAPACITOR TANTATUM 10MF/10V
C159	1-135-166-21	s	CAPACITOR TANTAL CHIP 47MF/10V
C160	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C161	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C162	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C163	1-135-259-11	s	CAPACITOR TANTALUM 10MF/6.3VF
C164	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C165	1-135-259-11	s	CAPACITOR TANTALUM 10MF/6.3VF
C166	1-135-166-21	s	CAPACITOR TANTAL CHIP 47MF/10V
C200	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C201	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C202	1-104-553-11	s	CAPACITOR FILM 0.015MF/16V
C203	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C204	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C205	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C206	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C207	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C208	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C209	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C210	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C211	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C212	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C213	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C214	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C215	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C216	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C217	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C218	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C219	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C251	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C252	1-104-553-11	s	CAPACITOR FILM 0.015MF/16V

(AD-119 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C253	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C254	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C255	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C256	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C257	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C258	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C259	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C304	1-128-401-11	s	CAPACITOR ERECT 100MF/25V(CHIP
C305	1-128-401-11	s	CAPACITOR ERECT 100MF/25V(CHIP
C306	1-135-166-21	s	CAPACITOR TANTAL CHIP 47MF/10V
C307	1-135-166-21	s	CAPACITOR TANTAL CHIP 47MF/10V
CN1	1-569-531-11	s	HOUSING,CONNECTOR 20P
CN1	1-750-143-11	o	PIN, SIL 7P
CN2	1-569-531-11	s	HOUSING,CONNECTOR 20P
CN3	1-691-550-11	s	PIN,CONNECTOR (3P)(SMD)(1.5MM)
D1	8-719-037-73	s	LED CL-181Y-C
D2	8-719-037-73	s	LED CL-181Y-C
D101	8-719-800-76	s	DIODE 1SS226
D151	8-719-800-76	s	DIODE 1SS226
D201	8-719-800-76	s	DIODE 1SS226
IC1	8-759-249-93	s	IC LC75821W
IC1	8-759-908-16	s	IC TL072CPS
IC2	8-759-939-41	s	IC S-81230AG-RB-S
IC101	8-759-700-84	s	IC NJM2041MD
IC102	8-759-700-84	s	IC NJM2041MD
IC104	8-759-908-16	s	IC TL072CPS
IC106	8-759-603-27	s	IC M5201FP
IC151	8-759-700-84	s	IC NJM2041MD
IC152	8-759-700-84	s	IC NJM2041MD
IC154	8-759-908-16	s	IC TL072CPS
IC156	8-759-603-27	s	IC M5201FP
IC201	8-759-700-84	s	IC NJM2041MD
IC202	8-759-700-84	s	IC NJM2041MD
IC203	8-759-357-90	s	IC AK5339-VS
IC204	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC205	8-759-196-97	s	IC TC7SH32FU (TE85R)
L301	1-410-389-31	s	INDUCTOR,CHIP 47UH (3225)
L302	1-410-389-31	s	INDUCTOR,CHIP 47UH (3225)
L303	1-410-389-31	s	INDUCTOR,CHIP 47UH (3225)
LCD1	1-801-194-11	s	DISPLAY UNIT,LIQUID CRYSTAL
Q1	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q101	8-729-014-86	s	TRANSISTOR 2SC4207-YGR-TE85L
Q102	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q103	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q104	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q105	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q106	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q107	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q151	8-729-014-86	s	TRANSISTOR 2SC4207-YGR-TE85L
Q152	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q153	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q154	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q155	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q156	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q157	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q200	8-729-028-91	s	TRANSISTOR DTA144EUA-T106

(AD-119 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q201	8-729-117-32	s	TRANSISTOR 2SC4177
Q202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q203	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q204	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q251	8-729-117-32	s	TRANSISTOR 2SC4177
Q252	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q253	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q254	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q302	8-729-144-56	s	TRANSISTOR 2SC3617
Q303	8-729-020-94	s	TRANSISTOR 2SA1314C-TE12L
R1	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R2	1-216-840-11	s	RESISTOR,CHIP 39K 1/16W 1608
R3	1-216-846-11	s	RESISTOR,CHIP 120K 1/16W (1608
R4	1-216-850-11	s	RESISTOR,CHIP 270K 1/16W 1608
R101	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R102	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R103	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R104	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R105	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R106	1-218-696-11	s	RESISTOR CHIP 1.5K 1/16W(1608)
R107	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W 1608
R108	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R109	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R110	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R111	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R112	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R113	1-216-801-11	s	RESISTOR,CHIP 22 1/16W 1608
R114	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R115	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R116	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R121	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R122	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R123	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R124	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R125	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R126	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R127	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R128	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R129	1-216-849-11	s	RESISTOR,CHIP 220K 1/16 1608
R130	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R131	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R132	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R133	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R134	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R135	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R151	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R152	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R153	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R154	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R155	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R156	1-218-696-11	s	RESISTOR CHIP 1.5K 1/16W(1608)
R157	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W 1608
R158	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R159	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R160	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R161	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R162	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R163	1-216-801-11	s	RESISTOR,CHIP 22 1/16W 1608
R164	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)

(AD-119 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R165	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R166	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R171	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R172	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R173	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R174	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R175	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R176	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R177	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R178	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R179	1-216-849-11	s	RESISTOR,CHIP 220K 1/16 1608
R180	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R181	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R182	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R183	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R184	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R185	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R201	1-216-831-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R202	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R203	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R204	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R205	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R206	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R207	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R208	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R209	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R210	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R211	1-216-857-11	s	RESISTOR, CHIP 1.0M 1/16W 1608
R212	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R213	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R214	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R215	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R216	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R217	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R218	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R219	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R220	1-216-849-11	s	RESISTOR,CHIP 220K 1/16 1608
R221	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R251	1-216-831-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R252	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R253	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R254	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R255	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R256	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R257	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R259	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R260	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R261	1-216-857-11	s	RESISTOR, CHIP 1.0M 1/16W 1608
R262	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R263	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R264	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R265	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R266	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R301	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R302	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R304	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R305	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
RB201	1-239-444-11	s	NETWORK,RESISTOR 220K (1608)

(AD-119 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB202	1-239-444-11	s	NETWORK,RESISTOR 220K (1608)
RV1	1-237-039-11	s	RESISTOR,ADJ,CERMET 100K
RV101	1-223-684-11	s	RESISTOR, VAR, CARBON 5K
RV151	1-223-684-11	s	RESISTOR, VAR, CARBON 5K
S103	1-571-277-31	s	SWITCH, SLIDE
S104	1-570-842-11	s	SWITCH,SLIDE (2-2-2)
S153	1-571-277-31	s	SWITCH, SLIDE
S154	1-570-842-11	s	SWITCH,SLIDE (2-2-2)
S301	1-570-860-11	s	SWITCH,SLIDE (1-1-2)
S302	1-570-860-11	s	SWITCH,SLIDE (1-1-2)
S303	1-570-852-11	s	SWITCH, SLIDE

CN-1233 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8272-700-A	o	MOUNTED CIRCUIT BOARD, CN-1233
C1	1-126-392-11	s	CAPACITOR,CHIP ELECT 100MF/6.3
C2	1-128-391-11	s	CAPACITOR,ELECT 330MF/6.3V
C3	1-126-392-11	s	CAPACITOR,CHIP ELECT 100MF/6.3
C4	1-128-391-11	s	CAPACITOR,ELECT 330MF/6.3V
C5	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C102	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C103	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C105	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C106	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C107	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C108	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C109	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C110	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C111	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C112	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C113	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C152	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C153	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C155	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C156	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C157	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C158	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C159	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C160	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C161	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C162	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C163	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C201	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C202	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C203	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C204	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C205	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C206	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C207	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C208	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C209	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C210	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C211	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C212	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C213	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C214	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C215	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C251	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C252	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C253	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C254	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C255	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C256	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C257	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C258	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C259	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C260	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C261	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C262	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C263	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C264	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C265	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F

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Ref. No. or Q'ty	Part No.	SP	Description
C301	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C303	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C304	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C305	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C306	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C307	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C351	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C353	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C354	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C355	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
CN2	1-569-775-21	o	PIN, CONNECTOR 5P
CN3	1-564-198-11	o	PIN,HEADER,ANGLE 5P
CN101	1-766-386-12	s	CONNECTOR, 3P-XLR TYPE(FEMALE)
CN151	1-766-386-12	s	CONNECTOR, 3P-XLR TYPE(FEMALE)
D1	8-719-941-86	s	DIODE DAN202U
D101	8-719-800-76	s	DIODE 1SS226
D102	8-719-800-76	s	DIODE 1SS226
D151	8-719-800-76	s	DIODE 1SS226
D152	8-719-800-76	s	DIODE 1SS226
D201	8-719-800-76	s	DIODE 1SS226
D202	8-719-800-76	s	DIODE 1SS226
D251	8-719-800-76	s	DIODE 1SS226
D252	8-719-800-76	s	DIODE 1SS226
FL201	1-239-895-11	s	FILTER, EMI (SMD)
FL202	1-239-895-11	s	FILTER, EMI (SMD)
FL251	1-239-895-11	s	FILTER, EMI (SMD)
FL252	1-239-895-11	s	FILTER, EMI (SMD)
FL301	1-239-895-11	s	FILTER, EMI (SMD)
FL302	1-239-895-11	s	FILTER, EMI (SMD)
IC101	8-759-700-84	s	IC NJM2041MD
IC151	8-759-700-84	s	IC NJM2041MD
IC201	8-759-700-84	s	IC NJM2041MD
IC202	8-759-603-27	s	IC M5201FP
IC203	8-759-700-84	s	IC NJM2041MD
IC204	8-759-700-94	s	IC NJM5532M
IC251	8-759-700-84	s	IC NJM2041MD
IC252	8-759-603-27	s	IC M5201FP
IC253	8-759-700-84	s	IC NJM2041MD
IC254	8-759-700-94	s	IC NJM5532M
IC301	8-759-700-84	s	IC NJM2041MD
IC302	8-759-700-94	s	IC NJM5532M
IC351	8-759-700-84	s	IC NJM2041MD
J301	1-507-863-51	s	JACK,LARGE TYPE (6.4)
L101	1-412-137-11	s	INDUCTOR,MICRO 10UH
L102	1-412-137-11	s	INDUCTOR,MICRO 10UH
L151	1-412-137-11	s	INDUCTOR,MICRO 10UH
L152	1-412-137-11	s	INDUCTOR,MICRO 10UH
Q1	8-729-020-93	s	TRANSISTOR 2SC2982C-TE12L
Q2	8-729-020-94	s	TRANSISTOR 2SA1314C-TE12L
Q101	8-729-271-31	s	TRANSISTOR 2SC2713-G
Q151	8-729-271-31	s	TRANSISTOR 2SC2713-G
Q201	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q202	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q251	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q252	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q300	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q301	8-729-209-07	s	TRANSISTOR 2SC4213-B

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Ref. No. or Q'ty	Part No.	SP	Description
Q302	8-729-209-07	s	TRANSISTOR 2SC4213-B
R1	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R2	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R101	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R103	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R105	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R106	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R107	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R108	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R109	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R110	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R111	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R112	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R113	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R114	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R115	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R116	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R117	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R118	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R119	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R120	1-218-682-11	s	RESISTOR CHIP 390 1/16W (1608)
R121	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R122	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R123	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R151	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R153	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R155	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R156	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R157	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R158	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R159	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R160	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R161	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R162	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R163	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R164	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R165	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R166	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R167	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R168	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R169	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R170	1-218-682-11	s	RESISTOR CHIP 390 1/16W (1608)
R171	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R172	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R173	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R201	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R202	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R203	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R204	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R205	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R206	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R207	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R208	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R209	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R211	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R212	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R213	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R214	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R215	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R216	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R217	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R218	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R219	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R220	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R221	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R222	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R223	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R224	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R225	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R226	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R227	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R228	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R229	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R230	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R251	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R252	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R253	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R254	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R255	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R256	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R258	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R261	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R262	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R263	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R264	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R265	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R266	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R267	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R268	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R269	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R270	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R271	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R272	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R273	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R274	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R275	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R276	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R277	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R278	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R279	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R280	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R301	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R302	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R303	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R304	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R305	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R306	1-220-220-11	s	RESISTOR, CHIP 120 1/2W (4532)
R307	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R351	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R352	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R353	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R354	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R355	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R356	1-220-220-11	s	RESISTOR, CHIP 120 1/2W (4532)
R357	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1001	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1002	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1003	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1004	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
RV301	1-241-577-11	s	VAR, CARBON 20K/20K
S101	1-572-042-11	s	SWITCH,SLIDE (2-4-3)
S151	1-572-042-11	s	SWITCH,SLIDE (2-4-3)

CN-1233A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8272-708-A	o	MOUNTED CIRCUIT BOARD, CN-1233
C1	1-126-392-11	s	CAPACITOR,CHIP ELECT 100MF/6.3
C2	1-128-391-11	s	CAPACITOR,ELECT 330MF/6.3V
C3	1-126-392-11	s	CAPACITOR,CHIP ELECT 100MF/6.3
C4	1-128-391-11	s	CAPACITOR,ELECT 330MF/6.3V
C5	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C101	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C103	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C105	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C106	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C107	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C108	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C109	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C110	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C111	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C112	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C113	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C151	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C153	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C155	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C156	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C157	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C158	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C159	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C160	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C161	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C162	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C163	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C201	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C202	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C203	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C204	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C205	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C206	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C207	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C208	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C209	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C210	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C211	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C212	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C213	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C214	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C215	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C251	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C252	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C253	1-135-227-11	s	CAPACITOR,TANTALUM 100MF/6.3V
C254	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C255	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C256	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C257	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C258	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C259	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C260	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C261	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C262	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C263	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C264	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C265	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F

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Ref. No. or Q'ty	Part No.	SP	Description
C301	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C303	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C304	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C305	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C306	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C307	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C351	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C353	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C354	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C355	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
CN2	1-569-775-21	o	PIN, CONNECTOR 5P
CN3	1-564-198-11	o	PIN,HEADER,ANGLE 5P
CN101	1-766-385-12	s	CONNECTOR, 3P-XLR TYPE (MALE)
CN151	1-766-385-12	s	CONNECTOR, 3P-XLR TYPE (MALE)
D1	8-719-941-86	s	DIODE DAN202U
D101	8-719-800-76	s	DIODE 1SS226
D102	8-719-800-76	s	DIODE 1SS226
D151	8-719-800-76	s	DIODE 1SS226
D152	8-719-800-76	s	DIODE 1SS226
D201	8-719-800-76	s	DIODE 1SS226
D202	8-719-800-76	s	DIODE 1SS226
D251	8-719-800-76	s	DIODE 1SS226
D252	8-719-800-76	s	DIODE 1SS226
FL201	1-239-895-11	s	FILTER, EMI (SMD)
FL202	1-239-895-11	s	FILTER, EMI (SMD)
FL251	1-239-895-11	s	FILTER, EMI (SMD)
FL252	1-239-895-11	s	FILTER, EMI (SMD)
FL301	1-239-895-11	s	FILTER, EMI (SMD)
FL302	1-239-895-11	s	FILTER, EMI (SMD)
IC101	8-759-700-84	s	IC NJM2041MD
IC151	8-759-700-84	s	IC NJM2041MD
IC201	8-759-700-84	s	IC NJM2041MD
IC202	8-759-603-27	s	IC M5201FP
IC203	8-759-700-84	s	IC NJM2041MD
IC204	8-759-700-94	s	IC NJM5532M
IC251	8-759-700-84	s	IC NJM2041MD
IC252	8-759-603-27	s	IC M5201FP
IC253	8-759-700-84	s	IC NJM2041MD
IC254	8-759-700-94	s	IC NJM5532M
IC301	8-759-700-84	s	IC NJM2041MD
IC302	8-759-700-94	s	IC NJM5532M
IC351	8-759-700-84	s	IC NJM2041MD
J301	1-507-863-51	s	JACK,LARGE TYPE (6.4)
L101	1-412-137-11	s	INDUCTOR,MICRO 10UH
L102	1-412-137-11	s	INDUCTOR,MICRO 10UH
L151	1-412-137-11	s	INDUCTOR,MICRO 10UH
L152	1-412-137-11	s	INDUCTOR,MICRO 10UH
Q1	8-729-020-93	s	TRANSISTOR 2SC2982C-TE12L
Q2	8-729-020-94	s	TRANSISTOR 2SA1314C-TE12L
Q201	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q202	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q251	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q252	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q300	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q301	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q302	8-729-209-07	s	TRANSISTOR 2SC4213-B

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Ref. No. or Q'ty	Part No.	SP	Description
R1	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R2	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R102	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R104	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R105	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R106	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R107	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R108	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R109	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R110	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R111	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R112	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R113	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R114	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R115	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R116	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R117	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R118	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R119	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R120	1-218-682-11	s	RESISTOR CHIP 390 1/16W (1608)
R121	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R122	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R123	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R152	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R154	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R155	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R156	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R157	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R158	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R159	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R160	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R161	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R162	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R163	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R164	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R165	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R166	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R167	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R168	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R169	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R170	1-218-682-11	s	RESISTOR CHIP 390 1/16W (1608)
R171	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R172	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R173	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R201	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R202	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R203	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R204	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R205	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R206	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R207	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R208	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R209	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R211	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R212	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R213	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R214	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R215	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R216	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)

(CN-1233A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R217	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R218	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R219	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R220	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R221	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R222	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R223	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R224	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R225	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R226	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R227	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R228	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R229	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R230	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R251	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R252	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R253	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R254	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R255	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R256	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R258	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R261	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R262	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R263	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R264	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R265	1-218-692-11	s	RESISTOR CHIP 1.0K 1/16(1608)
R266	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R267	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R268	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R269	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R270	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R271	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R272	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R273	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16
R274	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R275	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R276	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R277	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R278	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R279	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R280	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R301	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R302	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R303	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R304	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R305	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R306	1-220-220-11	s	RESISTOR, CHIP 120 1/2W (4532)
R307	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R351	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R352	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R353	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R354	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R355	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R356	1-220-220-11	s	RESISTOR, CHIP 120 1/2W (4532)
R357	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1001	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1002	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1003	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1004	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)

(CN-1233A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV301	1-241-577-11	s	VAR, CARBON 20K/20K
S101	1-572-042-11	s	SWITCH,SLIDE (2-4-3)
S151	1-572-042-11	s	SWITCH,SLIDE (2-4-3)

CN-1339 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-659-734-11	o	PRINTED WIRING BOARD, CN-1339
CN1	1-774-795-11	s	CONNECTOR, XLR (RECEPTACLE) 5P

CN-1556 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-908-A	o	MOUNTED CIRCUIT BOARD, CN-1556

DA-140 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-912-A	o	MOUNTED CIRCUIT BOARD, DA-140
C2	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C3	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C4	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C6	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C7	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C8	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C9	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C10	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C13	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C16	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C17	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C18	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C19	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C20	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C21	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C22	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C23	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C24	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C25	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C105	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C107	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C109	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C111	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C113	1-104-546-11	s	CAPACITOR,FILM 0.0039MF/16V
C114	1-104-554-11	s	CAPACITOR CHIP FILM 0.018MF/16
C115	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C119	1-162-959-11	s	CAPACITOR,CERAMIC 330PF/50V SL
C121	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C123	1-111-253-11	s	CAPACITOR TANTALUM 100MF/6.3V
C124	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C125	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C126	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C127	1-135-201-11	s	CAPACITOR,CHIP TANTAL 10MF/4V
C128	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C129	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C130	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C131	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C135	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C136	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C137	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C138	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C139	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C140	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C141	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C142	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C143	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C155	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C157	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C159	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C161	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C163	1-104-546-11	s	CAPACITOR,FILM 0.0039MF/16V
C164	1-104-554-11	s	CAPACITOR CHIP FILM 0.018MF/16
C165	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C167	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C169	1-162-959-11	s	CAPACITOR,CERAMIC 330PF/50V SL
C171	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C173	1-111-253-11	s	CAPACITOR TANTALUM 100MF/6.3V

(DA-140 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C174	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C175	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C176	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C177	1-135-201-11	s	CAPACITOR,CHIP TANTAL 10MF/4V
C178	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C179	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C180	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C181	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C185	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C186	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C187	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C188	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C189	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C190	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C191	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C192	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C222	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C223	1-164-237-11	s	CAPACITOR,CERAMIC 16PF/50V CH
C224	1-164-237-11	s	CAPACITOR,CERAMIC 16PF/50V CH
C225	1-104-919-11	s	CAPASITOR TANTALLUM 10MF/25V
C226	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C227	1-104-919-11	s	CAPASITOR TANTALLUM 10MF/25V
C228	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C230	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C231	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C232	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C233	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C234	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C235	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C236	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C237	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C238	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C301	1-128-400-11	s	CAPACITOR, ELECT 47MF/25V
C302	1-128-401-11	s	CAPACITOR ERECT 100MF/25V(CHIP
C303	1-128-401-11	s	CAPACITOR ERECT 100MF/25V(CHIP
C304	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C305	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C306	1-128-394-11	s	0APACITOR,ELECT 220MF/10V
C307	1-128-400-11	s	CAPACITOR, ELECT 47MF/25V
C310	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C311	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C312	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C313	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C314	1-126-394-11	s	CAPACITOR ELECT 10MF/16V(CHIP)
C315	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C323	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C324	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C325	1-127-708-11	s	CAP, POLYPYRROLE 100MF
C351	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C352	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C353	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C354	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
CN1	1-695-453-11	s	CONNECTOR,BOARD TO BOARD 50P
CN2	1-580-056-21	o	PIN,CONNECTOR 3P
CN3	1-580-056-21	o	PIN,CONNECTOR 3P
CN4	1-580-057-11	o	PIN,CONNECTOR 4P
CN5	1-569-775-21	o	PIN, CONNECTOR 5P
CN6	1-580-789-21	o	PIN,CONNECTOR (SMD)

(DA-140 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D1	8-719-941-86	s	DIODE DAN202U
D102	8-719-800-76	s	DIODE 1SS226
D151	8-719-800-76	s	DIODE 1SS226
D220	8-719-941-86	s	DIODE DAN202U
D221	8-719-026-39	s	LED CL-150UR-CD
D301	8-719-800-76	s	DIODE 1SS226
D302	8-719-210-33	s	DIODE EC10DS2 (RECTI)
D303	8-719-941-86	s	DIODE DAN202U
D304	8-719-941-86	s	DIODE DAN202U
IC1	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC2	8-759-271-86	s	IC TC7SH04FU
IC3	8-759-700-84	s	IC NJM2041MD
IC4	8-759-431-95	s	IC S-81230SGUP-DQB-T1
IC5	8-759-472-04	s	IC 74VHC74MTCX
IC6	8-759-082-61	s	IC TC4W53FU
IC101	8-759-344-16	s	IC AK4319-VM (E2)
IC102	8-759-700-84	s	IC NJM2041MD
IC103	8-759-700-84	s	IC NJM2041MD
IC107	8-759-603-27	s	IC M5201FP
IC108	8-759-700-84	s	IC NJM2041MD
IC109	8-759-908-16	s	IC TL072CPS
IC110	8-759-700-84	s	IC NJM2041MD
IC152	8-759-700-84	s	IC NJM2041MD
IC153	8-759-700-84	s	IC NJM2041MD
IC157	8-759-603-27	s	IC M5201FP
IC158	8-759-700-84	s	IC NJM2041MD
IC159	8-759-908-16	s	IC TL072CPS
IC160	8-759-700-84	s	IC NJM2041MD
IC200	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC222	8-759-637-88	s	IC HD64F5398SFJ16
IC223	8-759-989-91	s	IC TL7705ACPS
IC225	8-759-523-81	s	IC TC74VHC08FT(EL)
IC227	8-759-491-51	s	IC TC74VHCT245AFT(EL)
IC228	8-759-524-07	s	IC TC74VHC138FT(EL)
IC229	8-759-497-31	s	IC LC35256DT-70-TLM
IC230	8-759-497-31	s	IC LC35256DT-70-TLM
IC231	8-759-524-32	s	IC TC74VHC367FT(EL)
IC240	8-759-645-89	o	IC 27C1024HCC-DA140-V1.00
IC302	8-752-368-47	s	IC CXD206-114R
IC310	8-759-524-19	s	IC TC74VHC164FT(EL)
IC311	8-759-524-19	s	IC TC74VHC164FT(EL)
IC312	8-759-523-95	s	IC TC74VHC74FT(EL)
IC351	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IS240	1-251-047-11	s	SOCKET,IC
L101	1-410-389-31	s	INDUCTOR,CHIP 47UH (3225)
L102	1-410-393-11	s	CHIP INDUCTOR 100UH (3225)
L152	1-410-393-11	s	CHIP INDUCTOR 100UH (3225)
L220	1-424-653-11	s	COIL,CHOKE 10UH
Q1	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q2	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q101	8-729-014-86	s	TRANSISTOR 2SC4207-YGR-TE85L
Q102	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q103	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q104	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q151	8-729-014-86	s	TRANSISTOR 2SC4207-YGR-TE85L
Q152	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q153	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q154	8-729-230-63	s	TRANSISTOR 2SC4116-YG

(DA-140 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q301	8-729-144-56	s	TRANSISTOR 2SC3617
Q302	8-729-020-94	s	TRANSISTOR 2SA1314C-TE12L
Q306	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q307	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
R1	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R4	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R5	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R6	1-218-751-11	s	RESISTOR,CHIP 300K 1/16W(1608)
R7	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R8	1-216-840-11	s	RESISTOR,CHIP 39K 1/16W 1608
R9	1-216-846-11	s	RESISTOR,CHIP 120K 1/16W (1608
R10	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R11	1-218-677-11	s	RESISTOR,CHIP 240 1/16W (1608)
R12	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R13	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R14	1-218-677-11	s	RESISTOR,CHIP 240 1/16W (1608)
R15	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R16	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R17	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R101	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R102	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R105	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R106	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R109	1-218-725-11	s	RESISTOR,CHIP 24K 1/16W(1608)
R111	1-218-725-11	s	RESISTOR,CHIP 24K 1/16W(1608)
R113	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R114	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R115	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R119	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R121	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R123	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R125	1-216-822-11	s	RESISTOR, CHIP 1.2K 1/16W 1608
R129	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R130	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R131	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R132	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R133	1-218-683-11	s	RESISTOR CHIP 430 1/16W (1608)
R134	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R135	1-218-677-11	s	RESISTOR,CHIP 240 1/16W (1608)
R136	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R137	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R138	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R139	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R140	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R141	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R142	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R143	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R144	1-216-849-11	s	RESISTOR,CHIP 220K 1/16 1608
R145	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R146	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R147	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R148	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R149	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R150	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R151	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R152	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R155	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R156	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R159	1-218-725-11	s	RESISTOR,CHIP 24K 1/16W(1608)
R161	1-218-725-11	s	RESISTOR,CHIP 24K 1/16W(1608)
R163	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R164	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R165	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16(1608)
R169	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R171	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R173	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R175	1-216-822-11	s	RESISTOR, CHIP 1.2K 1/16W 1608
R179	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R180	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R181	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R182	1-216-829-11	s	RESISTOR, CHIP 4.7K 1/16W 1608
R183	1-218-683-11	s	RESISTOR CHIP 430 1/16W (1608)
R184	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R185	1-218-677-11	s	RESISTOR,CHIP 240 1/16W (1608)
R186	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R187	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R188	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R189	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R190	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R191	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R192	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R193	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R194	1-216-849-11	s	RESISTOR,CHIP 220K 1/16 1608
R195	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R196	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R197	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R198	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R199	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R200	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R201	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R202	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R203	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R204	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R205	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R206	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R207	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R208	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R209	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R220	1-218-675-11	s	RESISTOR,CHIP 200 1/16W (1608)
R221	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R223	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R224	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R225	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
R226	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R227	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R228	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R229	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R230	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R231	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R234	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R237	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R239	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R240	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R241	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R242	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R243	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R244	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R245	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R246	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R247	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R248	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R249	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R250	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R251	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R252	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R253	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R255	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R301	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R302	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R303	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R304	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R305	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R306	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R307	1-216-849-11	s	RESISTOR,CHIP 220K 1/16 1608
R308	1-216-849-11	s	RESISTOR,CHIP 220K 1/16 1608
R310	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R311	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R312	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
RB200	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB201	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB202	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB203	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RV2	1-237-039-11	s	RESISTOR,ADJ,CERMET 100K
RV101	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV151	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
S101	1-571-277-11	s	SWITCH,SLIDE (1-2-2)
S220	1-692-270-41	s	SWITCH, SLIDE
S221	1-571-277-11	s	SWITCH,SLIDE (1-2-2)
X220	1-767-636-11	s	VIBRATOR, CRYSTAL

DIF-87 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-911-A	o	MOUNTED CIRCUIT BOARD, DIF-87
C1	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C2	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C3	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C4	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C5	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C6	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C7	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C8	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C9	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C10	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C11	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C12	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C13	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C14	1-113-981-11	s	CAPACITOR TANTALUM 22MF/20V
C15	1-113-981-11	s	CAPACITOR TANTALUM 22MF/20V
C16	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C17	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C18	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C21	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C22	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C23	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C24	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C25	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C26	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C29	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C30	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C31	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C32	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C33	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C37	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C38	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C39	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C40	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C42	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C43	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C44	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C45	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C46	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C47	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C48	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C49	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C50	1-164-506-11	s	CAPACITOR,CHIP CERAMIC (M-)
C51	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C52	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C53	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C54	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C55	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C56	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C57	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C58	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C59	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C60	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C61	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C62	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C63	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C64	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C65	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F

(DIF-87 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C66	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
FB1	1-543-622-11	s	BEAD,FERRITE (CHIP)
FB2	1-543-622-11	s	BEAD,FERRITE (CHIP)
FL1	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL2	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL3	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL4	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL5	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL6	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
IC1	8-759-386-27	s	IC 74LCX04MTCX
IC2	8-759-386-25	s	IC 74LCX245MTCX
IC3	8-759-386-25	s	IC 74LCX245MTCX
IC4	8-729-024-50	s	TRANSISTOR SI9936DY
IC6	8-729-024-50	s	TRANSISTOR SI9936DY
IC7	8-759-386-28	s	IC 74LCX00MTCX
IC8	8-759-386-25	s	IC 74LCX245MTCX
IC9	8-759-560-34	s	IC DS90LV032ATMX
IC11	8-759-547-49	s	IC CDC509PWR
IC12	8-759-386-26	s	IC 74LCX574MTCX
IC13	8-759-386-26	s	IC 74LCX574MTCX
IC14	8-759-386-26	s	IC 74LCX574MTCX
IC15	8-759-524-50	s	IC TC74VHC541FT(EL)
IC16	8-759-392-01	s	IC TC7SH86FU (TE85R)
IC18	8-759-482-59	s	IC CXD8591AQ
IC19	8-759-482-59	s	IC CXD8591AQ
IC20	8-759-468-45	s	IC CDC586PAH
IC21	8-759-389-31	s	IC 74LCX125MTCX
IC23	8-759-386-25	s	IC 74LCX245MTCX
Q1	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q2	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q5	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q6	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
R1	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R2	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R3	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R5	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R6	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R7	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R8	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R9	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R10	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R11	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R12	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R13	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R14	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R15	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R17	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R18	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R19	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R20	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R21	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R22	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R23	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R24	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R25	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R26	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R27	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R28	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R29	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R32	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R33	1-218-666-11	s	RESISTOR CHIP 82 1/16W (1608)
R34	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R38	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R41	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R42	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R43	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R46	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R48	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R49	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R50	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R51	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R52	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R53	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R54	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R55	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R57	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R58	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R59	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R60	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R61	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R62	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R67	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R68	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R69	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R70	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R72	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R74	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R77	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R79	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R80	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R81	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R82	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R83	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R84	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R86	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R87	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R88	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R98	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R100	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R101	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R102	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R103	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R105	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R107	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
RB1	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB2	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB3	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB4	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB5	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB6	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB7	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB8	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB11	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB12	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB13	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)

(DIF-87 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB14	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB15	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB16	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB17	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB18	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB19	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB20	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB21	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB22	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB23	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB27	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB28	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB30	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB31	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB32	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)

DP-234 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-659-725-11	o	PRINTED WIRING BOARD, DP-234
C1	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C2	1-162-963-11	s	CAPACITOR,CERAMIC 680PF/50V(B)
R1	1-218-733-11	s	RESISTOR,CHIP 51K 1/16W (1608)
R2	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
R3	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
RB1	1-239-444-11	s	NETWORK,RESISTOR 220K (1608)

HN-261 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-907-A	o	MOUNTED CIRCUIT BOARD, HN-261
CN1	1-573-366-21	s	CONNECTOR,FFC/FPC 26P
CN2	1-573-364-11	s	CONNECTOR, FFC/FPC 24P
CN101	1-766-235-11	s	HOUSING, CONNECTOR(FPC.FFC)26P
CN102	1-766-235-11	s	HOUSING, CONNECTOR(FPC.FFC)26P
R1	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R2	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R3	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R4	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R6	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R7	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)

MB-851 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-906-A	o	MOUNTED CIRCUIT BOARD, MB-851
C1	1-163-009-11	s	CAPACITOR,CHIP CERAMIC 1000PF
C2	1-163-009-11	s	CAPACITOR,CHIP CERAMIC 1000PF
C3	1-163-009-11	s	CAPACITOR,CHIP CERAMIC 1000PF
C4	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C5	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C6	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C7	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C8	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C9	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C10	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
CN101	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN201	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN401	1-569-531-11	s	HOUSING,CONNECTOR 20P
CN402	1-569-531-11	s	HOUSING,CONNECTOR 20P
CN501	1-766-235-11	s	HOUSING, CONNECTOR(FPC.FFC)26P
CN502	1-766-235-11	s	HOUSING, CONNECTOR(FPC.FFC)26P
CN601	1-770-678-11	o	CONNECTOR, BOARD TO BOARD 50P
CN701	1-566-982-11	o	PIN HEADER,STRAIGHT 9P
CN702	1-564-710-11	s	PIN,CONNECTOR (8P)
CN703	1-566-982-11	o	PIN HEADER,STRAIGHT 9P
CN704	1-573-290-21	s	PIN,CONNECTOR (4P)(SMD)(1.5MM)
CN801	1-695-207-21	o	PIN, CONNECTOR (PC BOARD) 6P

RE-173 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-913-A	o	MOUNTED CIRCUIT BOARD, RE-173
C101	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C102	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C103	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C104	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C105	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C106	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C107	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C108	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C109	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C110	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C111	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C112	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C113	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C114	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C115	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C116	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C117	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C118	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C119	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C120	1-113-577-11	s	CAPACITOR,ELECT 47MF/16V
C121	1-113-577-11	s	CAPACITOR,ELECT 47MF/16V
C122	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C123	1-113-577-11	s	CAPACITOR,ELECT 47MF/16V
C124	1-113-577-11	s	CAPACITOR,ELECT 47MF/16V
C125	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C126	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C127	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C128	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C129	1-110-980-11	s	CAPACITOR,ELECT 390MF/6.3V
C130	1-110-980-11	s	CAPACITOR,ELECT 390MF/6.3V
C131	1-110-980-11	s	CAPACITOR,ELECT 390MF/6.3V
C132	1-111-034-11	s	CAPACITOR,ELECT 220MF/16V(105C
C134	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C137	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C138	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C139	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C140	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C141	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C142	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C144	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C145	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C146	1-127-513-00	s	CAPACITOR,ELECT 15MF/25V
C147	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C149	1-111-134-11	s	CAPACITOR ELECT 27MF/63V
C150	1-113-577-11	s	CAPACITOR,ELECT 47MF/16V
C151	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C153	1-113-577-11	s	CAPACITOR,ELECT 47MF/16V
C154	1-113-577-11	s	CAPACITOR,ELECT 47MF/16V
C156	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C157	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C158	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C160	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C161	1-110-980-11	s	CAPACITOR,ELECT 390MF/6.3V
C162	1-111-134-11	s	CAPACITOR ELECT 27MF/63V
C163	1-115-732-11	s	CAPACITOR ELECT 330MF/10V 105C
C164	1-115-732-11	s	CAPACITOR ELECT 330MF/10V 105C
C165	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V

(RE-173 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C166	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C202	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C203	1-104-478-11	s	CAPACITOR TANTALUM 10MF/35V
C204	1-127-520-11	s	CAPACITOR,ELECT (SOLID) 68MF
C205	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C206	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C207	1-126-941-11	s	CAPACITOR,ELECT 470MF/25V
C209	1-126-941-11	s	CAPACITOR,ELECT 470MF/25V
C210	1-126-155-11	s	CAPACITOR,ELECT 100MF/6.3V
C211	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C212	1-104-919-11	s	CAPASITOR TANTALLUM 10MF/25V
C213	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C214	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C215	1-163-009-11	s	CAPACITOR,CHIP CERAMIC 1000PF
C216	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C217	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C218	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C219	1-163-017-00	s	CAPACITOR,CHIP CERAMIC 4700PF
C220	1-163-017-00	s	CAPACITOR,CHIP CERAMIC 4700PF
C222	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C225	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C226	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C228	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C229	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C230	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C232	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C233	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C236	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C237	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C238	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C239	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C241	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C242	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C244	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C245	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C247	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C248	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C250	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C251	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C252	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C253	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C254	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C255	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C256	1-163-989-11	s	CAPACITOR,CHIP CERAMIC 0.033M
C257	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C258	1-115-185-11	s	CAP CERAMIC 0.033MF/50V(2012)
C259	1-104-760-11	s	CAPACITOR CERAMIC 0.047MF/50V
C260	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C261	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C262	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C263	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C264	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C265	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
CB201	⚠ 1-533-518-21	s	BREAKER, CIRCUIT
CN1	1-695-453-11	s	CONNECTOR,BOARD TO BOARD 50P
D101	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D102	8-719-938-75	s	DIODE SB05-05CP (RECTI)

(RE-173 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D103	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D104	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D105	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D106	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D107	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D108	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D109	8-719-104-34	s	DIODE 1S2836
D110	8-719-800-76	s	DIODE 1SS226
D112	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D114	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D115	8-719-048-17	s	DIODE MBRS130LT3
D116	8-719-989-93	s	DIODE SB01-15CP
D117	8-719-048-17	s	DIODE MBRS130LT3
D118	8-719-104-34	s	DIODE 1S2836
D119	8-719-104-34	s	DIODE 1S2836
D201	8-719-023-54	s	DIODE EA60QC06-F
D202	8-719-104-34	s	DIODE 1S2836
D203	8-719-104-34	s	DIODE 1S2836
F201	⚠ 1-533-282-21	s	CIRCUIT PROTECTOR 2A (3225)
IC101	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC102	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC103	8-759-271-86	s	IC TC7SH04FU
IC104	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC105	8-759-196-97	s	IC TC7SH32FU (TE85R)
IC202	8-759-710-88	s	IC NJM431U
IC203	8-759-560-89	s	IC MB3761PF-ER
IC206	8-759-261-48	s	IC TL1451ACPW (R)
IC207	8-759-261-48	s	IC TL1451ACPW (R)
IC208	8-759-261-48	s	IC TL1451ACPW (R)
IC209	8-759-261-48	s	IC TL1451ACPW (R)
L101	1-409-579-11	s	COIL, CHOKE 8.2UH
L102	1-409-579-11	s	COIL, CHOKE 8.2UH
L103	1-409-579-11	s	COIL, CHOKE 8.2UH
L104	1-409-579-11	s	COIL, CHOKE 8.2UH
L105	1-409-721-11	s	COIL, CHOKE 42UH
L106	1-409-721-11	s	COIL, CHOKE 42UH
L107	1-409-721-11	s	COIL, CHOKE 42UH
L108	1-409-721-11	s	COIL, CHOKE 42UH
L109	1-421-459-21	s	COIL,CHOKE
L110	1-421-459-21	s	COIL,CHOKE
L111	1-421-459-21	s	COIL,CHOKE
L112	1-421-459-21	s	COIL,CHOKE
L114	1-409-579-11	s	COIL, CHOKE 8.2UH
L115	1-409-579-11	s	COIL, CHOKE 8.2UH
L116	1-409-579-11	s	COIL, CHOKE 8.2UH
L117	1-409-579-11	s	COIL, CHOKE 8.2UH
L118	1-424-642-11	s	COIL, CHOKE 47UH
L119	1-409-722-11	s	COIL, CHOKE 220UH
L121	1-409-721-11	s	COIL, CHOKE 42UH
L122	1-409-722-11	s	COIL, CHOKE 220UH
L124	1-421-459-21	s	COIL,CHOKE
L125	1-409-579-11	s	COIL, CHOKE 8.2UH
L126	1-409-579-11	s	COIL, CHOKE 8.2UH
Q101	8-729-012-35	s	FET 2SK711-BL
Q102	8-729-012-35	s	FET 2SK711-BL
Q103	8-729-012-35	s	FET 2SK711-BL
Q104	8-729-012-35	s	FET 2SK711-BL

(RE-173 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q105	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q106	8-729-112-65	s	TRANSISTOR 2SA1462
Q107	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q108	8-729-112-65	s	TRANSISTOR 2SA1462
Q109	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q110	8-729-112-65	s	TRANSISTOR 2SA1462
Q111	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q112	8-729-112-65	s	TRANSISTOR 2SA1462
Q113	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q114	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q115	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q116	8-729-041-86	s	TRANSISTOR SI4412DY-T1
Q117	8-729-041-86	s	TRANSISTOR SI4412DY-T1
Q118	8-729-041-86	s	TRANSISTOR SI4412DY-T1
Q119	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q120	8-729-041-86	s	TRANSISTOR SI4412DY-T1
Q121	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q122	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q123	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q124	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q126	8-729-012-35	s	FET 2SK711-BL
Q127	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q130	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q131	8-729-112-65	s	TRANSISTOR 2SA1462
Q132	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q133	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q134	8-729-112-65	s	TRANSISTOR 2SA1462
Q135	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q136	8-729-112-65	s	TRANSISTOR 2SA1462
Q137	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q138	8-729-112-65	s	TRANSISTOR 2SA1462
Q139	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q141	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q143	8-729-041-86	s	TRANSISTOR SI4412DY-T1
Q144	8-729-040-83	s	TRANSISTOR SI4450DY-T1
Q145	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q146	1-801-806-11	s	TRANSISTOR DTC144EAK
Q147	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q148	1-801-806-11	s	TRANSISTOR DTC144EAK
Q149	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q201	8-729-022-29	s	TRANSISTOR 2SJ332S
Q202	8-729-118-56	s	FET 2SK852-X2
Q203	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q204	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q205	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q206	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q207	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q208	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q209	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q210	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q211	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q212	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q213	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q214	8-729-022-29	s	TRANSISTOR 2SJ332S
R101	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R102	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R103	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R104	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R105	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)

(RE-173 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R106	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R107	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R108	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R109	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R110	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R111	1-216-619-11	s	RESISTOR CHIP 47 1/10W(2012)
R112	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R113	1-216-619-11	s	RESISTOR CHIP 47 1/10W(2012)
R114	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R115	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R116	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R117	1-216-619-11	s	RESISTOR CHIP 47 1/10W(2012)
R118	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R119	1-216-619-11	s	RESISTOR CHIP 47 1/10W(2012)
R120	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R121	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R122	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R123	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R124	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R125	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R126	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R127	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R128	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R129	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R130	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R131	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R132	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R133	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R134	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R135	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R136	1-216-679-11	s	RESISTOR CHIP 15K 1/10W (2012)
R137	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R138	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R139	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R140	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R141	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R142	1-216-296-91	s	RESISTOR, CHIP
R143	1-216-296-91	s	RESISTOR, CHIP
R144	1-216-296-91	s	RESISTOR, CHIP
R145	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R146	1-216-296-91	s	RESISTOR, CHIP
R147	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R148	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R149	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R150	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R151	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R152	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R153	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R154	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R156	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R157	1-216-679-11	s	RESISTOR CHIP 15K 1/10W (2012)
R158	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R159	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R161	1-216-619-11	s	RESISTOR CHIP 47 1/10W(2012)
R162	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R163	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R164	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R166	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R167	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R169	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R170	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R171	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R174	1-216-684-91	s	RESISTOR METAL FILM CHIP 24K
R175	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R176	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R177	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R178	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R179	1-216-684-91	s	RESISTOR METAL FILM CHIP 24K
R180	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R182	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R183	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R184	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R185	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R186	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R187	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R188	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R189	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R191	1-216-296-91	s	RESISTOR, CHIP
R192	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R193	1-216-296-91	s	RESISTOR, CHIP
R194	1-216-296-91	s	RESISTOR, CHIP
R195	1-216-296-91	s	RESISTOR, CHIP
R197	1-216-296-91	s	RESISTOR, CHIP
R200	1-216-296-91	s	RESISTOR, CHIP
R201	1-216-635-11	s	RESISTOR CHIP 220 1/10W (2012)
R202	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R204	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R205	1-216-089-91	s	RESISTOR, CHIP 47K
R206	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R207	1-216-686-11	s	RESISTOR, METAL FILM 30K 1/10W
R208	1-216-674-11	s	RESISTOR,CHIP 9.1K 1/10W(2012)
R209	1-216-696-11	s	RESISTOR,CHIP 75K 1/10W(2012)
R210	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R211	1-216-655-11	s	RESISTOR,CHIP 1.5K 1/10W(2012)
R212	1-216-685-11	s	RESISTOR,CHIP 27K 1/10W(2012)
R213	1-216-686-11	s	RESISTOR, METAL FILM 30K 1/10W
R214	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R215	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R216	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R217	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R218	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R219	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R220	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R221	1-216-643-11	s	RESISTOR CHIP 470 1/10W (2012)
R222	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R223	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R224	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R225	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R226	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R227	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R228	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R230	1-216-296-91	s	RESISTOR, CHIP
R233	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R234	1-216-643-11	s	RESISTOR CHIP 470 1/10W (2012)
R235	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R236	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R237	1-216-629-11	s	RESISTOR,CHIP 120 1/10W (2012)
R238	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R239	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R240	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R243	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R244	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R245	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R246	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R249	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R250	1-216-673-11	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R251	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R252	1-216-673-11	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R258	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)
R259	1-216-641-11	s	RESISTOR,CHIP 390 1/10W(2012)
R260	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R261	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R262	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R263	1-216-681-11	s	RESISTOR CHIP 18K 1/10W (2012)
R264	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R265	1-216-643-11	s	RESISTOR CHIP 470 1/10W (2012)
R268	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R269	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R270	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R271	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R274	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R275	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R276	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R277	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R278	1-216-681-11	s	RESISTOR CHIP 18K 1/10W (2012)
R283	1-216-679-11	s	RESISTOR CHIP 15K 1/10W (2012)
R284	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R285	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R286	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R288	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R289	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R290	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R291	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R293	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R294	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R296	1-216-631-11	s	RESISTOR,CHIP 150 1/10W (2012)
R297	1-216-660-11	s	RESISTOR,CHIP 2.4K 1/10W(2012)
R298	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R299	1-216-679-11	s	RESISTOR CHIP 15K 1/10W (2012)
R300	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R301	1-216-673-11	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R302	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R303	1-216-643-11	s	RESISTOR CHIP 470 1/10W (2012)
R304	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R305	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R306	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R307	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R308	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R309	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R310	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R311	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R312	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R313	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R314	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R315	1-216-660-11	s	RESISTOR,CHIP 2.4K 1/10W(2012)
R316	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)
R317	1-218-758-11	s	RESISTOR,CHIP 180K 1/10W(2012)

(RE-173 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R318	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R319	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R320	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)
R321	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R322	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R324	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R325	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R326	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R327	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R328	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R329	1-216-691-11	s	RESISTOR CHIP 47K 1/10W(2012)
R330	1-216-684-91	s	RESISTOR METAL FILM CHIP 24K
R331	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R332	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R333	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R334	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R335	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R336	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R337	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)

SW-819 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-659-733-11	o	PRINTED WIRING BOARD, SW-819
S101	1-554-400-12	s	SWITCH,TOGGLE

3-4. Frame List

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
HN101	----		HARNESS (PSW-AD5)
(TO W1-W3/SW-819 BOARD)			
(TO CN3/AD-119 BOARD)			
1pc	1-569-618-11	o	HOUSING, CONNECTOR 3P
3pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
HN102	----		HARNESS (CAM-MB4)
(TO CN703/MB-851 BOARD)			
1pc	1-580-696-11	o	HOUSING, CONNECTOR 9P
7pcs	1-562-260-11	o	CONTACT,SOCKET
(TO CN101/BATTERY OUT)			
1pc	1-774-841-11	s	CONNECTOR, BATTERY
1pc	1-543-157-11	s	BEAD, FERRITE
HN103	1-791-548-11	o	CABLE, FLEXIBLE FLAT (26 CORE)
(FROM CN101/HN-261 BOARD TO CN501/MB-851 BOARD)			
HN104	1-791-548-11	o	CABLE, FLEXIBLE FLAT (26 CORE)
(FROM CN102/HN-261 BOARD TO CN502/MB-851 BOARD)			
HN105	1-776-446-11	o	CABLE, FLEXIBLE FLAT (20 CORE)
(FROM CN1/AD-119 BOARD TO CN401/MB-851 BOARD)			
HN106	1-776-446-11	o	CABLE, FLEXIBLE FLAT (20 CORE)
(FROM CN2/AD-119 BOARD TO CN402/MB-851 BOARD)			
HN201	----		HARNESS (DA-MB (AU))
(TO CN2/DA-140 BOARD)			
1pc	1-569-618-11	o	HOUSING, CONNECTOR 3P
3pcs	1-565-977-11	o	TERMINAL, SOLDERLESS
(TO CN3/DA-140 BOARD)			
1pc	1-569-618-11	o	HOUSING, CONNECTOR 3P
3pcs	1-565-977-11	o	TERMINAL, SOLDERLESS
(TO CN801/MB-851 BOARD)			
1pc	1-695-212-11	o	HOUSING, CONNECTOR 6P
6pcs	1-695-215-11	o	TERMINAL, SOLDERLESS
HN202	----		HARNESS (BATT-MB3)
(TO CN102/BATTERY IN)			
1pc	1-543-157-11	s	BEAD, FERRITE
1pc	1-766-377-12	s	CONNECTOR, BATTERY
(TO CN702/MB-851 BOARD)			
1pc	1-562-257-11	o	HOUSING,CONNECTOR 8P
7pcs	1-562-260-11	o	CONTACT,SOCKET
HN203	----		HARNESS (EXDC-MB1)
(TO CN701/MB-851 BOARD)			
1pc	1-580-696-11	o	HOUSING, CONNECTOR 9P
6pcs	1-562-260-11	o	CONTACT,SOCKET
(TO CN103/DC IN)			
1pc	1-543-157-11	s	BEAD, FERRITE
1pc	1-564-603-31	s	CONNECTOR (WITH DC SW) 4P
1pc	1-553-442-21	s	SWITCH, MICRO
HN204	----		HARNESS (DCOUT-MB2)
(TO CN704/MB-851 BOARD)			
1pc	1-569-619-11	o	HOUSING, CONNECTOR 4P
4pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
(TO CN104/DC OUT)			
1pc	1-565-072-11	s	CONNECTOR (RF),ROUND
1pc	3-695-267-01	o	BRACKET, DC-OUT
HN205	----		HARNESS (CN-XLR5)
(TO W1-W5/CN-1339 BOARD)			
(TO CN3/CN-1233 BOARD)			
1pc	1-562-255-11	o	HOUSING, CONNECTOR 5P
5pcs	1-562-260-11	o	CONTACT,SOCKET

Section 4
Semiconductor Pin Assignments

The semiconductors in the manual are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.
In some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.
Pin assignments and block diagrams are based on the IC manufacturer's data book.

ここに記載されている半導体は，それぞれの機能を等価的に表わしたものです。
外観やインデックスマークの表示方法が実物と異なる場合があります。
なお，互換性のない型名を併記している場合がありますので，部品を交換するときは，Spare Partsの章を参照してください。
ピン配置およびブロック図はICメーカーのデータブックに従いました。

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2SC2713G-TE85L 4-2
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2SC4116YG-TE85L 4-2
2SC4177-L6 4-2
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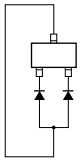
Diode, LED, Transistor

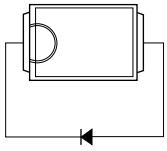
DIODE

—TOP VIEW—

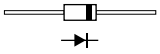


1S2836
1S2836-T1

—TOP VIEW—



MBRS130LT3

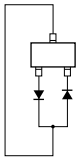


1SS119
1SS119-25TD

—TOP VIEW—

SB01-15CP
SB01-15CP-TB

—TOP VIEW—

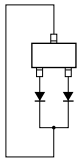


1SS123-T1
1SS226

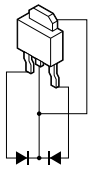
—TOP VIEW—

SB05-05CP
SB05-05CP-TB

—TOP VIEW—



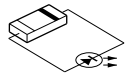
DAN202U
DAN202UT106



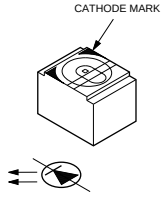
EA60QC06-TE16F2

EC10DS2
EC10DS2-TE12L5

LED



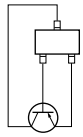
CL-150UR-CD-T



CL-181Y-C
CL-181Y-C-TS

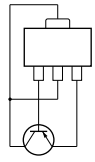
TRANSISTOR

—TOP VIEW—



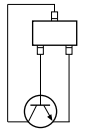
2SA1162G
2SA1462
2SA1462-T1Y33Y34
2SA1611-M5M6
2SA1611T1-M5M6
2SA812-T1-M5M6

—TOP VIEW—



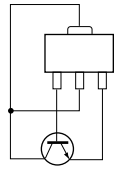
2SA1314C-TE12L

—TOP VIEW—



2SC1623
2SC1623-T1-L5L6
2SC2713-G
2SC2713G-TE85L
2SC4116-YG
2SC4116YG-TE85L
2SC4177-L6
2SC4177-T1L5L6
2SC4213-B
2SC4213B-TE85L

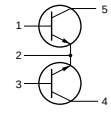
—TOP VIEW—



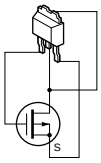
2SC2982C-TE12L
2SC3617
2SC3617-T1TL

—TOP VIEW—

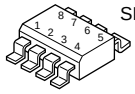
2SC4207-YGRTE85L



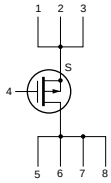
IC



2SJ332S
2SJ332S-TL



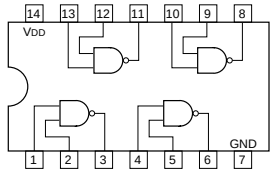
SI4435DY-T1-REVA

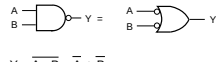


74LCX00MTCX (NS)

C-MOS QUAD 2-INPUT NAND GATES

—TOP VIEW—



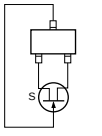


$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

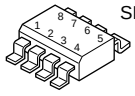
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

—TOP VIEW—



2SK711-BL
2SK711-BL/V-TE85L
2SK852-T1X2
2SK852-X2

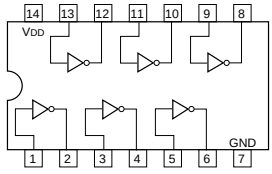


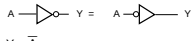
SI4532DY-T1

74LCX04MTCX (NS)
SN74HC04APWR (TI)

C-MOS HEX INVERTERS

—TOP VIEW—



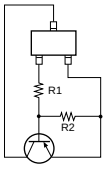


$Y = \overline{A}$

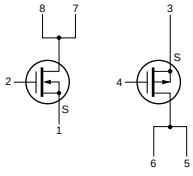
A	Y
0	1
1	0

0 : LOW LEVEL
1 : HIGH LEVEL

—TOP VIEW—



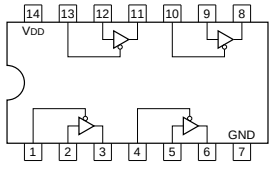
DTA144EKA-T146
(R1=47k, R2=47k)
DTA144EUA-T106
(R1=47k, R2=47k)



74LCX125MTCX (NS)

C-MOS BUS BUFFER GATES WITH 3-STATE OUTPUT

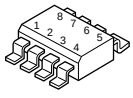
—TOP VIEW—



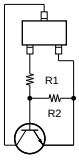
G	A	Y
0	0	0
0	1	1
1	×	HI-Z

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

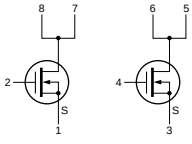
SI9936DY
SI9936DY-T1

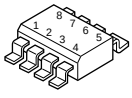


—TOP VIEW—

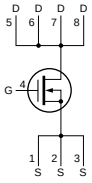


DTC144EKA
(R1=47k, R2=47k)
DTC144EKA-T146
DTC144EUA-T106
(R1=47k, R2=47k)





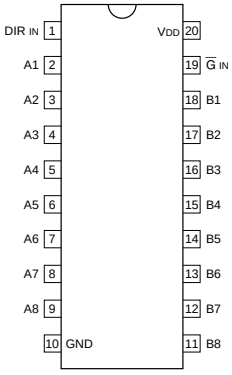
SI4412DY-T1
SI4450DY-T1

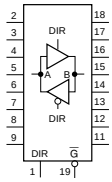


74LCX245MTCX (NS)
TC74VHCT245AFT(EL) (TOSHIBA)

OCTAL BUS TRANSCEIVER WITH 3-STATE OUTPUTS

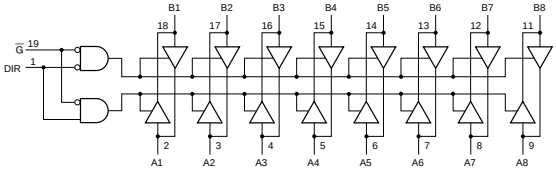
—TOP VIEW—





G	DIR	OPERATION
0	0	B to A
0	1	A to B
1	×	HI-Z

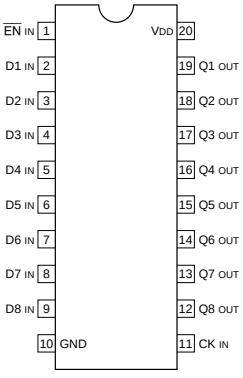
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

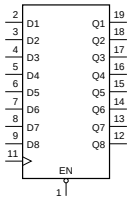


74LCX574MTCX (NS)

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP

—TOP VIEW—

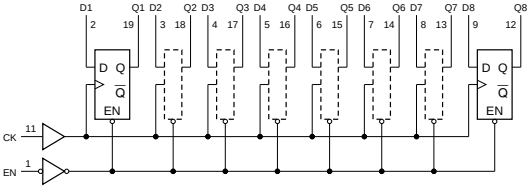




EACH FLIP-FLOP

INPUTS			OUT
EN	CK	D	Q
0	↑	1	1
0	↑	0	0
0	↓	×	Q0
1	×	×	HI-Z

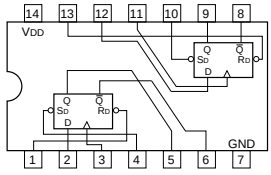
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE
Q0 : NONSTABLE



74VHC74MTCX (NS)
TC74VHC74FT(EL) (TOSHIBA)

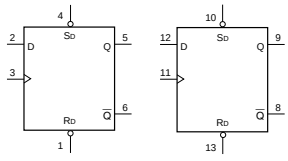
C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET

—TOP VIEW—



INPUTS				OUTPUTS	
$\overline{SD}$	$\overline{RD}$	CK	D	Qn+1	$\overline{Qn+1}$
0	1	×	×	1	0
1	0	×	×	0	1
0	0	×	×	1	1
1	1	↑	1	1	0
1	1	↑	0	0	1
1	1	0	×	Qn	$\overline{Qn}$

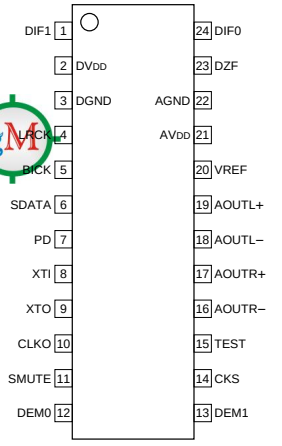
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

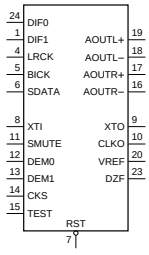


AK4319-VM-E2 (ASAHI)

C-MOS 18-BIT D/A CONVERTER

—TOP VIEW—



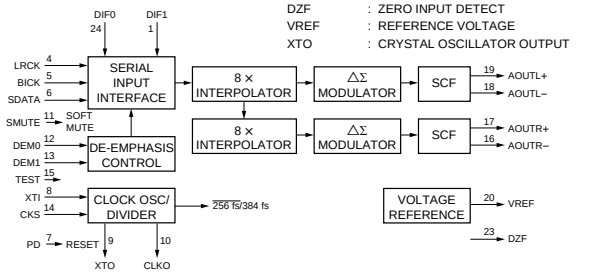


INPUTS

BICK : SERIAL BIT CLOCK
CKS : CLOCK SELECT (L : 256 fs/H : 384 fs)
DEM0, DEM1 : DE-EMPHASIS SELECT
DIF0, DIF1 : INPUT FORMAT SELECTS
LRCK : L/R CLOCK
PD : RESET
SDATA : SERIAL DATA INPUT
SMUTE : SOFT MUTE (H : MUTE)
TEST : TEST
XTI : CRYSTAL OSCILLATOR INPUT

OUTPUT

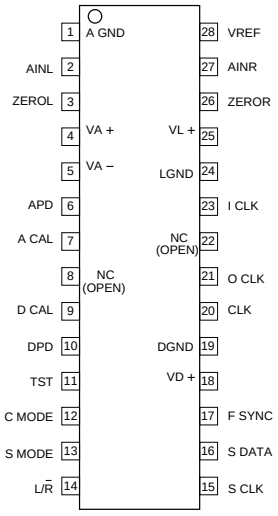
AOUTL+ : L-CH ANALOG POSITIVE OUTPUT
AOUTL– : L-CH ANALOG NEGATIVE OUTPUT
AOUTR+ : R-CH ANALOG POSITIVE OUTPUT
AOUTR– : R-CH ANALOG NEGATIVE OUTPUT
CLKO : LOCAL OSCILLATOR CLOCK OUTPUT
DZF : ZERO INPUT DETECT
VREF : REFERENCE VOLTAGE
XTO : CRYSTAL OSCILLATOR OUTPUT

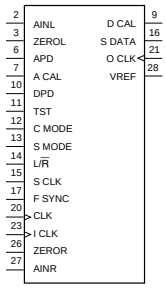


AK5339-VS (ASAHI)

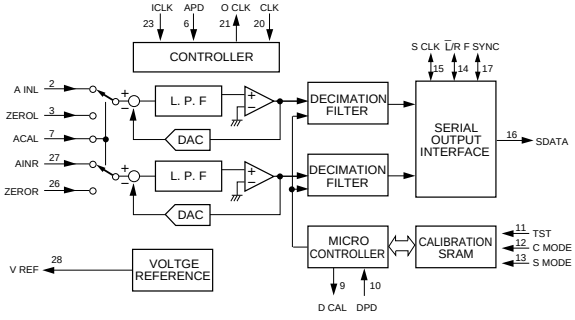
C-MOS OVER-SAMPLING STEREO A/D CONVERTER

—TOP VIEW—





A GND ; ANALOG GROUND
D GND ; DIGITAL GROUND
L GND ; LOGIC GROUND
VA + ; VCC FOR ANALOG
VA – ; VEE FOR ANALOG
VD + ; VCC FOR DIGITAL
VL + ; VCC FOR LOGIC



INPUT

ACAL	;	ANALOG CALIBRATION NORMALLY, CONNECT TO DCAL PIN.
AINL	;	L CHANNEL ANALOG INPUT
AINR	;	R CHANNEL ANALOG INPUT
APD	,	ANALOG POWER DOWN (H = POWER DOWN MODE) NORMALLY, CONNECT TO DPD PIN.
CLK	;	MASTER CLOCK
CMODE	;	MASTER CLOCK SELECTION L : CLK = 256fs H : CLK = 384fs
DPD	;	DIGITAL POWER DOWN (H = POWER DOWN MODE)
ICLK	;	128fs CLOCK INPUT (CONNECT TO OCLK PIN.)
L/R	;	INPUT CHANNEL SELECTION DATA CHANNEL OUTPUT FROM SDATA PIN IS SELECTED. (H = L CHANNEL DATA, L = R CHANNEL DATA)
SCLK	;	SERIAL DATA OUTPUT CLOCK
SMODE	;	INTERFACE SELECTION L : CONTROLED MODE H : CONTROL MODE
TST	;	TEST (CONNECT TO DGND)
ZEROL	;	L CHANNEL ZERO LEVEL INPUT
ZEROR	;	R CHANNEL ZERO LEVEL INPUT

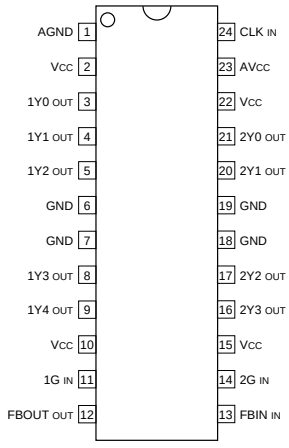
OUTPUT

DCAL	;	DIGITAL CALIBRATION
OCLK	;	128fs CLOCK OUTPUT
SDATA	;	SERIAL DATA OUTPUT DATA IS OUTPUT IN ORDER FROM MSB IN 2ND COMPLEMENT.
VREF	;	REFERENCE VOLTAGE SUPPLY OF –3.68V

CDC509PWR (TI)

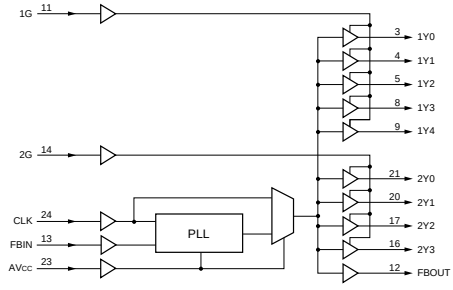
PHASE LOCK LOOP CLOCK DRIVER

—TOP VIEW—



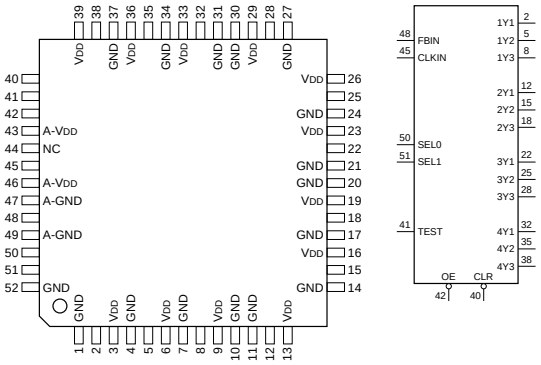
INPUTS			OUTPUTS		
1G	2G	CLK	1Y	2Y	FBOUT
×	×	0	0	0	0
0	0	1	0	0	1
0	1	1	0	1	1
1	0	1	1	0	1
1	1	1	1	1	1

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE



CDC586PAH (TI)

C-MOS PHASE-LOCK-LOOP CLOCK DRIVER
—TOP VIEW—



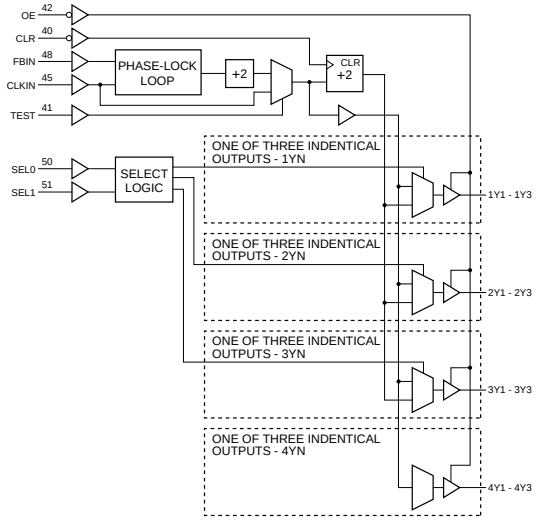
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	14	—	GND	27	—	GND	40	I	$\overline{CLR}$
2	O	1Y1	15	O	2Y2	28	O	3Y3	41	I	TEST
3	—	VDD	16	—	VDD	29	—	VDD	42	I	$\overline{OE}$
4	—	GND	17	—	GND	30	—	GND	43	—	A-VDD
5	O	1Y2	18	O	2Y3	31	—	GND	44	—	NC
6	—	VDD	19	—	VDD	32	O	4Y1	45	I	CLKIN
7	—	GND	20	—	GND	33	—	VDD	46	—	A-VDD
8	O	1Y3	21	—	GND	34	—	GND	47	—	A-GND
9	—	VDD	22	O	3Y1	35	O	4Y2	48	I	FBIN
10	—	GND	23	—	VDD	36	—	VDD	49	—	A-GND
11	—	GND	24	—	GND	37	—	GND	50	I	SEL0
12	O	2Y1	25	O	3Y2	38	O	4Y3	51	I	SEL1
13	—	VDD	26	—	VDD	39	—	VDD	52	—	GND

INPUT

CLKIN	:	CLOCK
$\overline{CLR}$	:	CLEAR
FBIN	:	FEEDBACK
$\overline{OE}$	:	OUTPUT ENABLE
SEL0, SEL1	:	OUTPUT SELECT
TEST	:	TEST

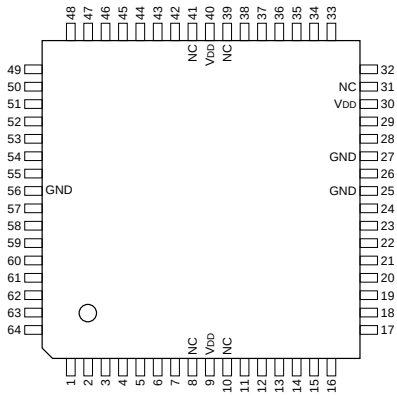
OUTPUT

1Y1 - 1Y3	:	OUTPUT PORTS
2Y1 - 2Y3	:	OUTPUT PORTS
3Y1 - 3Y3	:	OUTPUT PORTS
4Y1 - 4Y3	:	OUTPUT PORTS



CXD8591AQ (SONY)

C-MOS SAMPLING RATE CONVERTER
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	DO	17	I/O	TB7	33	I/O	TB5	49	I/O	TB2
2	I	SEL	18	I	MDO0	34	I/O	TB4	50	I/O	TB1
3	O	SRDT	19	I	MDO1	35	I	MAO0	51	I	DATAI
4	I	SWDT	20	I	MUTE	36	I	MAO1	52	I	LRCKI
5	I	SCK	21	O	DATAO	37	O	ALRKO	53	I	BCKI
6	I	XLAT	22	I/O	BCKO	38	O	ABCKO	54	I	FIMCK
7	I	INIT	23	I/O	LRCKO	39	—	NC	55	O	FIMO
8	—	NC	24	I	TEST4	40	—	VDD	56	—	GND
9	—	VDD	25	—	GND	41	—	NC	57	I	TEST2
10	—	NC	26	I	XI	42	O	DAOR	58	I	TEST1
11	O	RBPH	27	—	GND	43	O	DAOL	59	I	FIS
12	O	STA	28	O	XO	44	I	TEST3	60	I	MI0
13	I	FRS	29	O	XOO	45	I	DEMP	61	I	MI1
14	I	FRM	30	—	VDD	46	I	FS1	62	I	DI0
15	I	SLAVE	31	—	NC	47	I	FS2	63	I	DI1
16	I	TEST5	32	I/O	TB6	48	I/O	TB3	64	I/O	TB0

INPUT

BCKI	:	BIT CLOCK FOR THE INPUT SERIAL DATA
DATAI	:	SERIAL DATA
DEMP	:	DEEMPHASIS SETTING
DI0, DI1	:	DATA
FIMCK	:	MASTER CLOCK FOR THE INPUT DATA SYSTEM
FIS	:	FIMCK DIVIDING RATIO SETTING
FRM	:	Fs RATIO MEASURING MODE SELECT
FRS	:	Fs RATIO MEASURING TIME SELECT
FS1, FS2	:	Fsi FREQUENCY SELECT FOR DEEMPHASIS SETTING
INIT	:	INITIALIZE
LRCKI	:	1 Fs WORD CLOCK FOR THE INPUT SERIAL DATA
MAO0, MAO1	:	SERIAL DATA FORMAT SETTING FOR D/A OUTPUT
MDO0, MDO1	:	SERIAL DATA FORMAT SETTING FOR THE STANDARD DATA OUTPUT
MI0, MI1	:	INPUT SERIAL DATA FORMAT SETTING
MUTE	:	OUTPUT MUTING
SCK	:	ATTENUATION/MODE SETTING CLOCK
SEL	:	DATA SELECT CONTROL
SLAVE	:	OUTPUT SYNCHRONIZATION MODE SELECT
SWDT	:	ATTENUATION/MODE SETTING DATA
TEST1 - TEST5	:	IC CHIP TEST
XI	:	CRYSTAL OSCILLATOR
XLAT	:	ATTENUATION/MODE SETTING DATA LATCH PULSE

OUTPUT

ABCKO	:	BIT CLOCK FOR D/A OUTPUT
ALRKO	:	WORD CLOCK FOR D/A OUTPUT
DAOL	:	8 Fso/4 Fso DATA FOR L-CHANNEL D/A CONVERSION
DAOR	:	8 Fso/4 Fso DATA FOR R-CHANNEL D/A CONVERSION
DATAO	:	STANDARD SERIAL DATA
DO	:	DATA
FIMO	:	INVERTING OUTPUT OF THE MASTER CLOCK
RBPH	:	RING BUFFER READ/WRITE PHASE CONTROL MONITOR
SRDT	:	ATTENUATION/MODE SETTING DATA
STA	:	Fs CONVERTING RATIO MONITOR
XO	:	CRYSTAL OSCILLATOR
XOO	:	MASTER CLOCK FOR THE OUTPUT SYSTEM

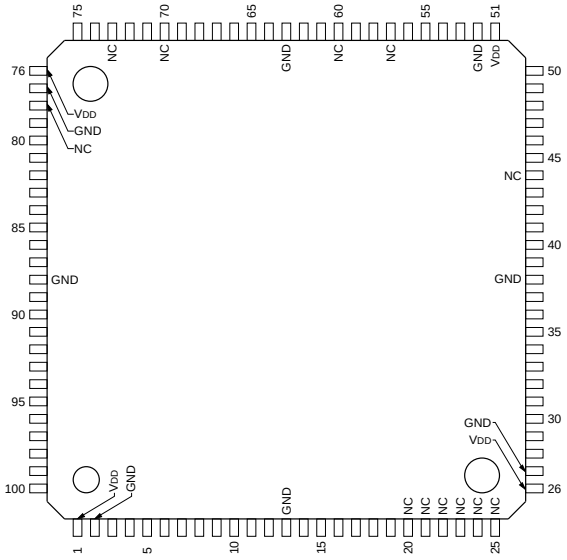
INPUT/OUTPUT

TB0 - TB7	:	TEST BUS
BCKO	:	BIT CLOCK FOR THE STANDARD SERIAL DATA
LRCKO	:	WORD CLOCK FOR THE STANDARD SERIAL DATA

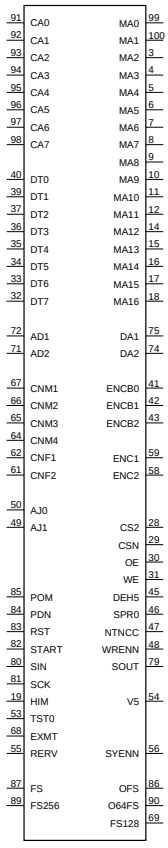
CXD206-114R (SONY)

C-MOS AUDIO PROCESSOR

—TOP VIEW—



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	—	VDD	26	—	VDD	51	—	VDD	76	—	VDD
2	—	GND	27	—	GND	52	—	GND	77	—	GND
3	O	MA2	28	O	CS2	53	I	TST0	78	—	NC
4	O	MA3	29	O	CSN	54	O	V5	79	O	SOUT
5	O	MA4	30	O	OE	55	I	REFV	80	I	SIN
6	O	MA5	31	O	WE	56	O	SYENN	81	I	SCK
7	O	MA6	32	I/O	DT7	57	—	NC	82	I	START
8	O	MA7	33	I/O	DT6	58	O	ENC2	83	I	RST
9	O	MA8	34	I/O	DT5	59	O	ENC1	84	I	PDN
10	O	MA9	35	I/O	DT4	60	—	NC	85	I	POM
11	O	MA10	36	I/O	DT3	61	I	CNF2	86	O	OFS
12	O	MA11	37	I/O	DT2	62	I	CNF1	87	I	FS
13	—	GND	38	—	GND	63	—	GND	88	—	GND
14	O	MA12	39	I/O	DT1	64	I	CNM4	89	I	FS256
15	O	MA13	40	I/O	DT0	65	I	CNM3	90	O	O64FS
16	O	MA14	41	O	ENCB0	66	I	CNM2	91	I	CA0
17	O	MA15	42	O	ENCB1	67	I	CNM1	92	I	CA1
18	O	MA16	43	O	ENCB2	68	I	EXMT	93	I	CA2
19	I	HIM	44	—	NC	69	O	FS128	94	I	CA3
20	—	NC	45	O	DEH5	70	—	NC	95	I	CA4
21	—	NC	46	O	SPR0	71	I	AD2	96	I	CA5
22	—	NC	47	O	NTNCC	72	I	AD1	97	I	CA6
23	—	NC	48	O	WRENN	73	—	NC	98	I	CA7
24	—	NC	49	I	AJ1	74	O	DA2	99	O	MA0
25	—	NC	50	I	AJ2	75	O	DA1	100	O	MA1



INPUT

AD1	;	A/D 1/2
AD2	;	A/D 3/4
AJ0, AJ1	;	ADJUST 0, 1
CA0 - CA7	;	CHIP ADDRESS 0 - 7
CNF1	;	CONFI 1/2
CNF2	;	CONFI 3/4
CNM1 - CNM4	;	CONFI MUTE 1 - 4
EXMT	;	EXTERNAL MUTE
FS	;	FS
FS256	;	256 FS
PDN	;	H : 1M SRAM / L : 256K
HIM	;	L : POWER DOWN
POM	;	POWER ON MUTE
REFV	;	REFERENCE V
RST	;	RESET
SCK	;	SERIAL CLOCK
SIN	;	SERIAL DATA
START	;	SERIAL START
TST0	;	TEST 0

OUTPUT

CS2	;	CHIP SELECT 2
CSN	;	CHIP SELECT ENABLE
DA1	;	D/A 1/2
DA2	;	D/A 3/4
DEH5	;	ADDRESS DECODE 5H
ENC1	;	ENCODE 1/2
ENC2	;	ENCODE 3/4
ENCB0 - ENCB2	;	ENCODE BIT 0 - 2
FS128	;	128 FS
MA0 - MA16	;	MEMORY ADDRESS 0 - 16
NTNCC	;	H : NTSC / L : PAL
O64FS	;	64 FS
OE	;	OUTPUT ENABLE
OFS	;	FS
SOUT	;	SERIAL DATA
SPR0	;	SPARE 0
SYENN	;	L : SERIAL ENABLE
V5	;	5V CLOCK
WE	;	WRITE ENABLE
WRENN	;	WRITE

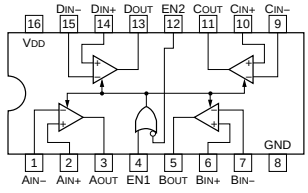
INPUT/OUTPUT

DT0 - DT7	;	MEMORY DATA 0 - 7

DS90LV032ATMX (NS)

C-MOS QUAD DIFFERENTIAL LINE RECEIVER

—TOP VIEW—

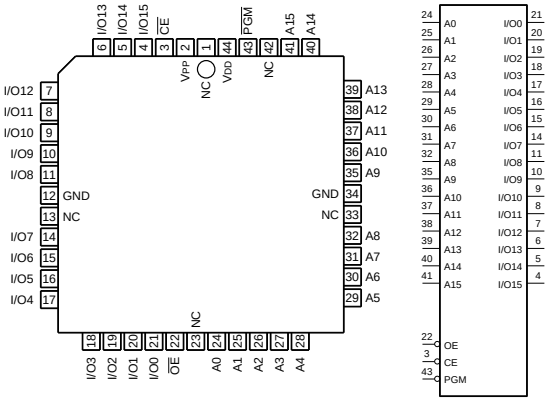


INPUTS			OUTPUTS
EN2	EN1	IN+ - IN–	OUT
1	0	×	HI-Z
ALL OTHER COMBINATIONS OF ENABLE INPUTS		VID ≥ 0.1V	1
		VID ≤ –0.1V	0
		FULL FAILSAFE OPEN/SHORT OR TERMINATED	1

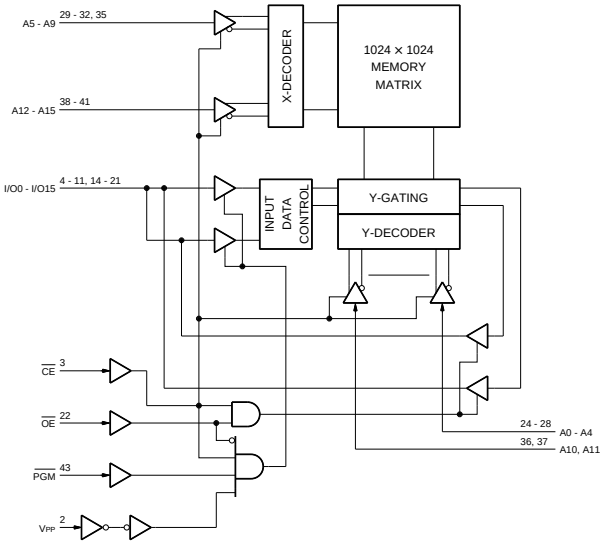
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

HN27C1024HCC-10 (HITACHI)

C-MOS 1M (65,536 × 16)-BIT EPROM
—TOP VIEW—

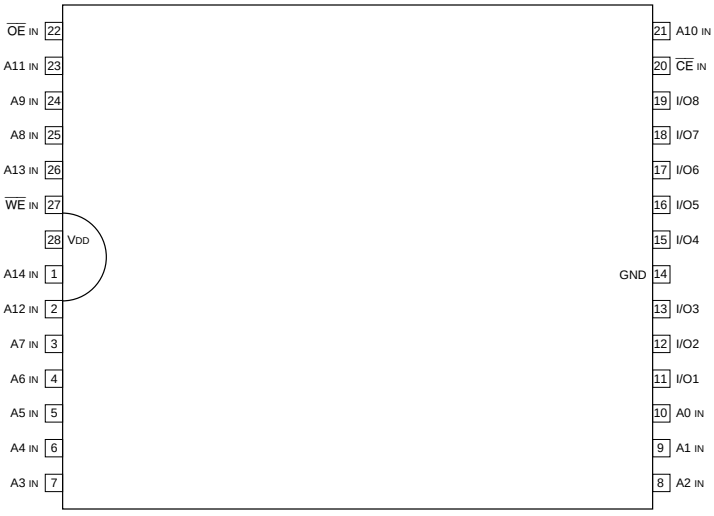

I/O13 I/O14 I/O15 CE PGM A15 A14
VPP NC VDD NC
I/O12 I/O11 I/O10 I/O9 I/O8 GND NC I/O7 I/O6 I/O5 I/O4
A13 A12 A11 A10 A9 GND NC A8 A7 A6 A5
NC
I/O3 I/O2 I/O1 I/O0 OE A0 A1 A2 A3 A4
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15
I/O0 I/O1 I/O2 I/O3 I/O4 I/O5 I/O6 I/O7 I/O8 I/O9 I/O10 I/O11 I/O12 I/O13 I/O14 I/O15
OE CE PGM

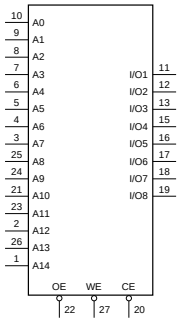
A0 - A15 ; ADDRESS INPUT
$\overline{CE}$; CHIP ENABLE
$\overline{OE}$; OUTPUT ENABLE
$\overline{PGM}$; PROGRAM ENABLE
I/O0 - I/O15 ; DATA INPUTS/OUTPUTS



LC35256DT-70-TLM (SANYO)

C-MOS 256 K (32,768 × 8)-BIT SRAM
—TOP VIEW—

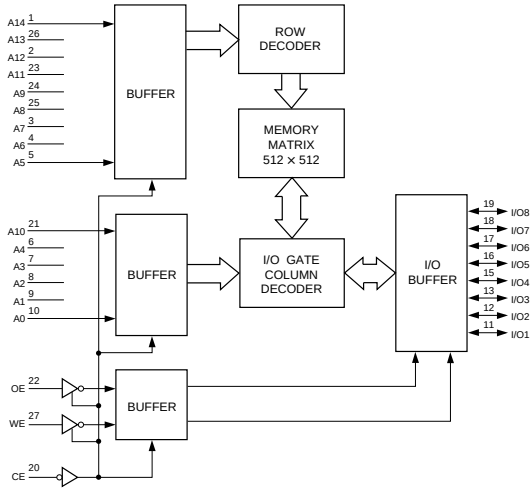




A0 - A14 : ADDRESS INPUTS
CE : CHIP ENABLE INPUT
I/O1 - I/O8 : DATA INPUTS/OUTPUTS
OE : OUTPUT ENABLE INPUT
WE : WRITE ENABLE INPUT

CE	OE	WE	MODE	I/O TERMINAL
1	×	×	NOT SELECT	HIGH IMPEDANCE
0	1	1	OUTPUT DISABLE	HIGH IMPEDANCE
0	0	1	READ	OUTPUT DATA
0	×	0	WRITE	INPUT DATA

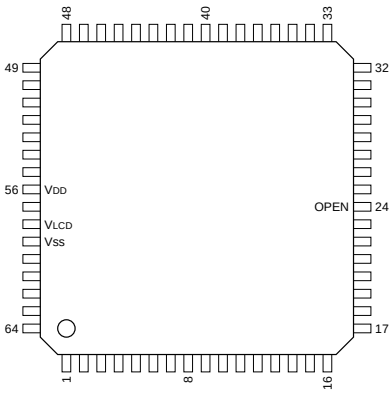
0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE



http://getMANUAL.com

LC75821W (SANYO)

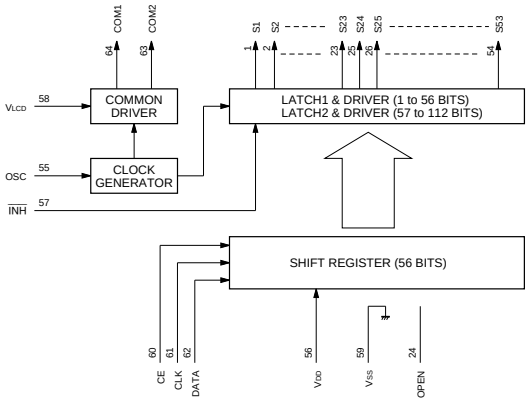
LCD DRIVER
—TOP VIEW—



INPUT
CE : CHIP ENABLE
CLK : CLOCK
DATA : SERIAL DATA
$\overline{INH}$: DISPLAY INHIBIT
OSC : OSCILLATOR

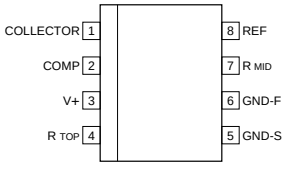
OUTPUT
COM1, 2 : COMMON OUTPUT

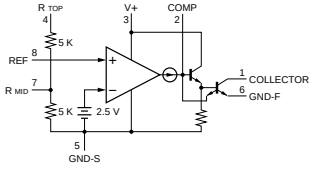
INPUT/OUTPUT
S1 - S53 : SEGMENT OUTPUT



LT1431CS8 (LINEAR TECH)

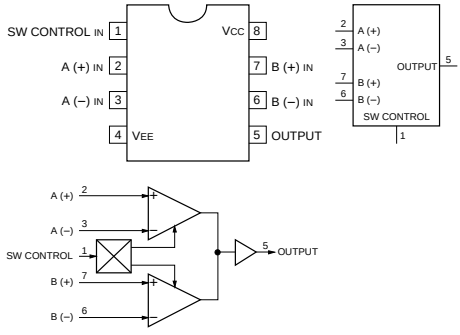
PROGRAMMABLE REFERENCE
—TOP VIEW—





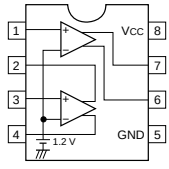
M5201FP (MITSUBISHI)
M5201FP-600D

DUAL OPERATIONAL AMPLIFIERS WITH SWITCHED OUTPUT
—TOP VIEW—



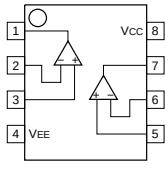
MB3761PF-ER (FUJITSU)

VOLTAGE DETECTOR
—TOP VIEW—



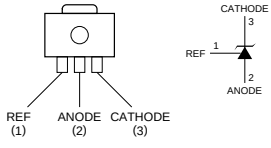
NJM2041M-D (JRC)
NJM2041M-D(TE2)
NJM5532M(TE2) (JRC)
TL072CPS (TI)
TL072CPS-E05

DUAL OPERATIONAL AMPLIFIERS
(DUAL-SUPPLY TYPE)
—TOP VIEW—



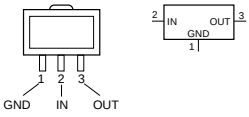
NJM431U (JRC)
NJM431U-TE1

ADJUSTABLE PRECISION SHUNT REGULATOR
—FRONT VIEW—



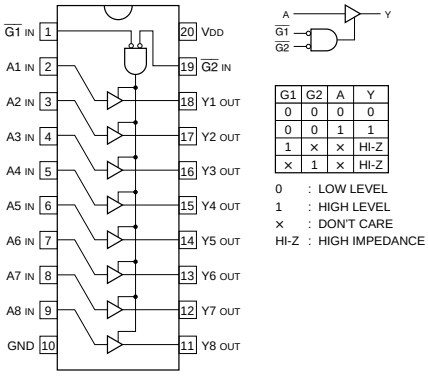
S-81230AG-RB-S (SEIKO I&E)+3.0 V
S-81230AG-RB-T1
S-81230SGUP-DQB-T1 (SEIKO I&E)

THREE TERMINAL POSITIVE VOLTAGE REGULATOR
—TOP VIEW—



SN74HC541APWR (TI)
TC74VHC541FT(EL) (TOSHIBA)
TC74VHCT541AFT(EL) (TOSHIBA)

OCTAL BUS BUFFER WITH 3-STATE OUTPUTS
—TOP VIEW—

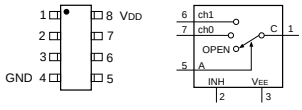


G1	G2	A	Y
0	0	0	0
0	0	1	1
1	×	×	HI-Z
×	1	×	HI-Z

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

TC4W53FU (TOSHIBA)
TC4W53FU(TE12R)

C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
—TOP VIEW—

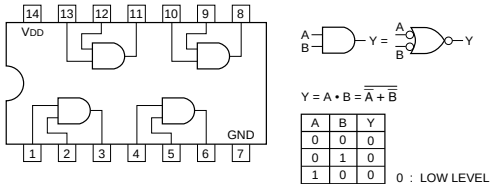


CONT. INPUT		ON
INH	A	CHANNEL
0	0	ch0
0	1	ch1
1	×	OPEN

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

TC74VHC08FT(EL) (TOSHIBA)

C-MOS QUAD 2-INPUT AND GATES
—TOP VIEW—

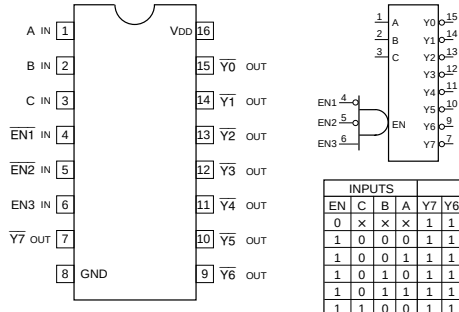


A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0 : LOW LEVEL
1 : HIGH LEVEL

TC74VHC138FT(EL) (TOSHIBA)

C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
—TOP VIEW—



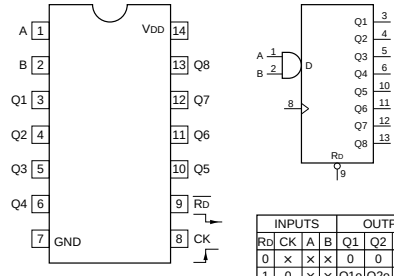
INPUTS				OUTPUTS						
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	×	×	×	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

EN = $\overline{EN1}$ • $\overline{EN2}$ • EN3

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

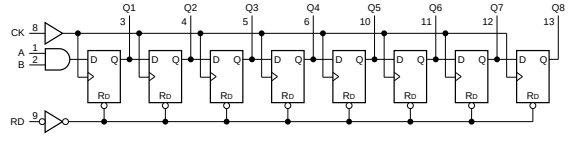
TC74VHC164FT(EL) (TOSHIBA)

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
—TOP VIEW—



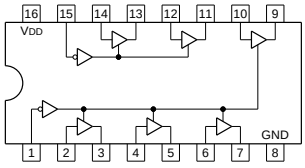
INPUTS				OUTPUTS			
RD	CK	A	B	Q1	Q2	---	Q8
0	×	×	×	0	0	---	0
1	0	×	×	Q1o	Q2o	---	Q8o
1	↑	1	1	1	Q1n	---	Q7n
1	↑	0	×	0	Q1n	---	Q7n
1	↑	×	0	0	Q1n	---	Q7n

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE



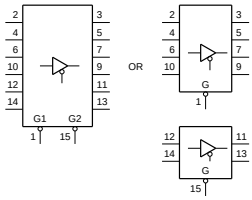
TC74VHC367FT(EL) (TOSHIBA)

BUS DRIVER WITH 3-STATE OUTPUTS
—TOP VIEW—



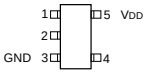
G	A	Y
0	0	0
0	1	1
1	X	HI-Z

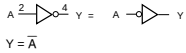
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



TC7SH04FU (TOSHIBA)
TC7SH04FU-TE85R

C-MOS INVERTER
—TOP VIEW—





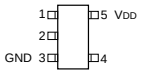
$Y = \overline{A}$

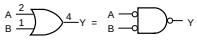
A	Y
0	1
1	0

0 : LOW LEVEL
1 : HIGH LEVEL

TC7SH32FU-TE85R (TOSHIBA)

C-MOS 2-INPUT OR GATE
—TOP VIEW—





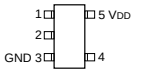
$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

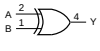
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 : LOW LEVEL
1 : HIGH LEVEL

TC7SH86FU-TE85R (TOSHIBA)

C-MOS 2-INPUT EXCLUSIVE OR GATE
—TOP VIEW—





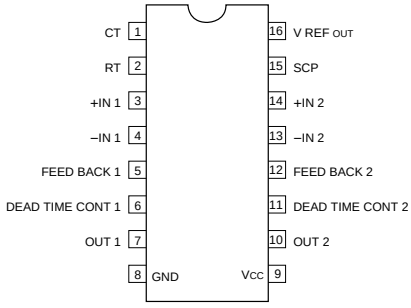
$Y = \overline{A} \cdot B + A \cdot \overline{B}$

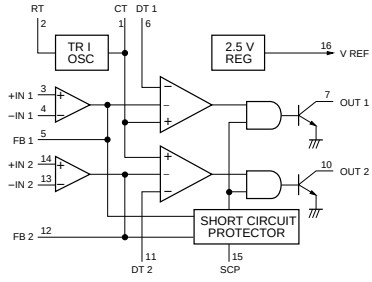
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0 : LOW LEVEL
1 : HIGH LEVEL

TL1451ACPWR (TI)

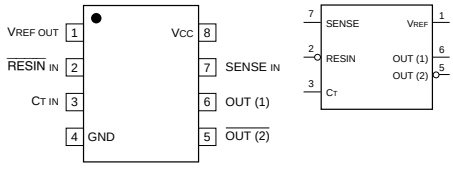
DUAL PWM POWER CONTROLLER
—TOP VIEW—

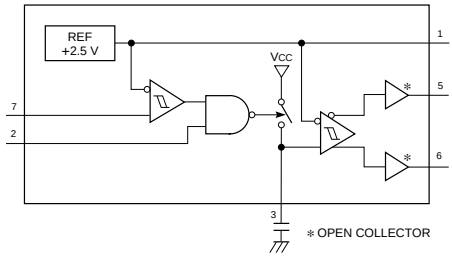




TL7705ACPS (TI)

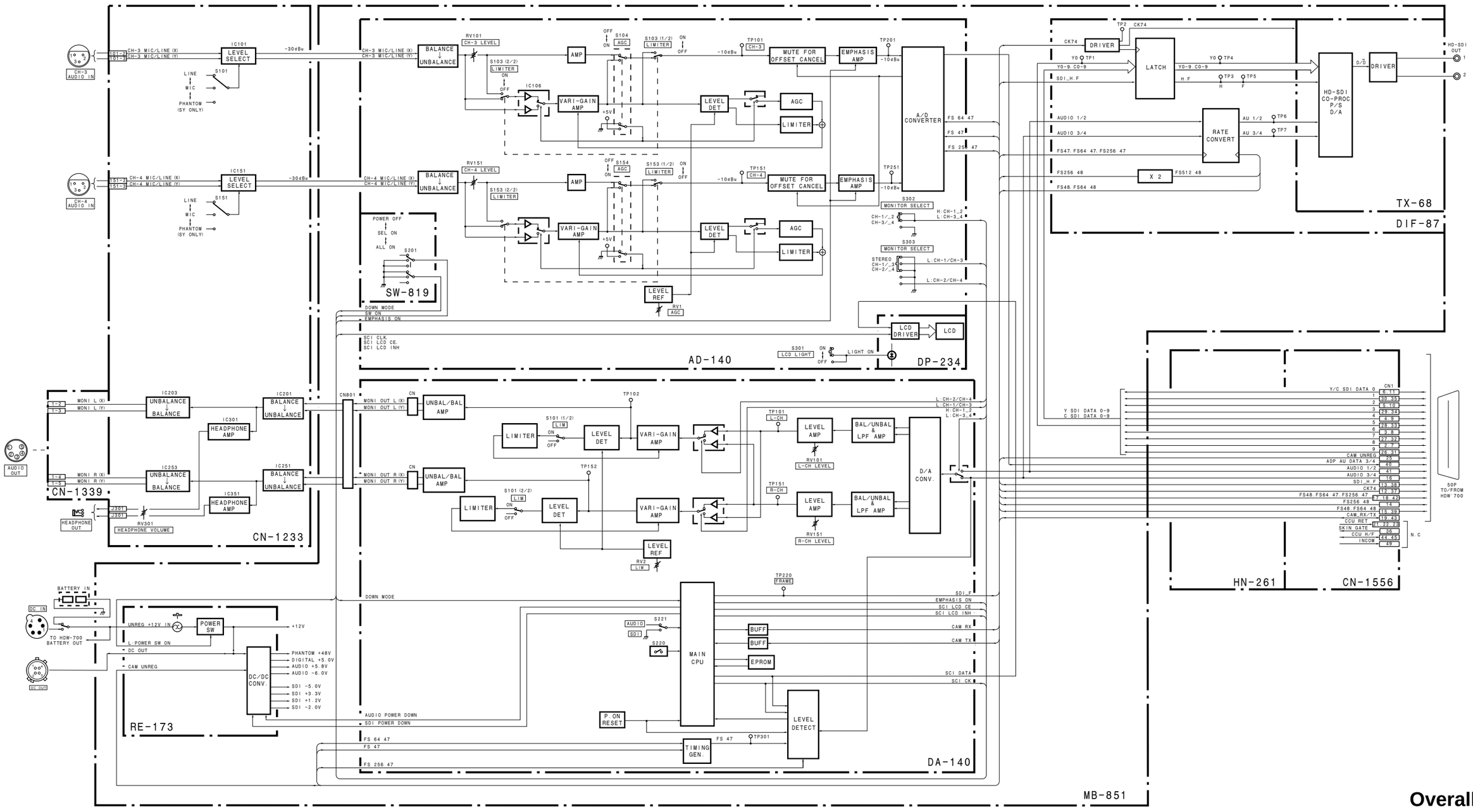
POWER VOLTAGE SUPERVISOR
—TOP VIEW—



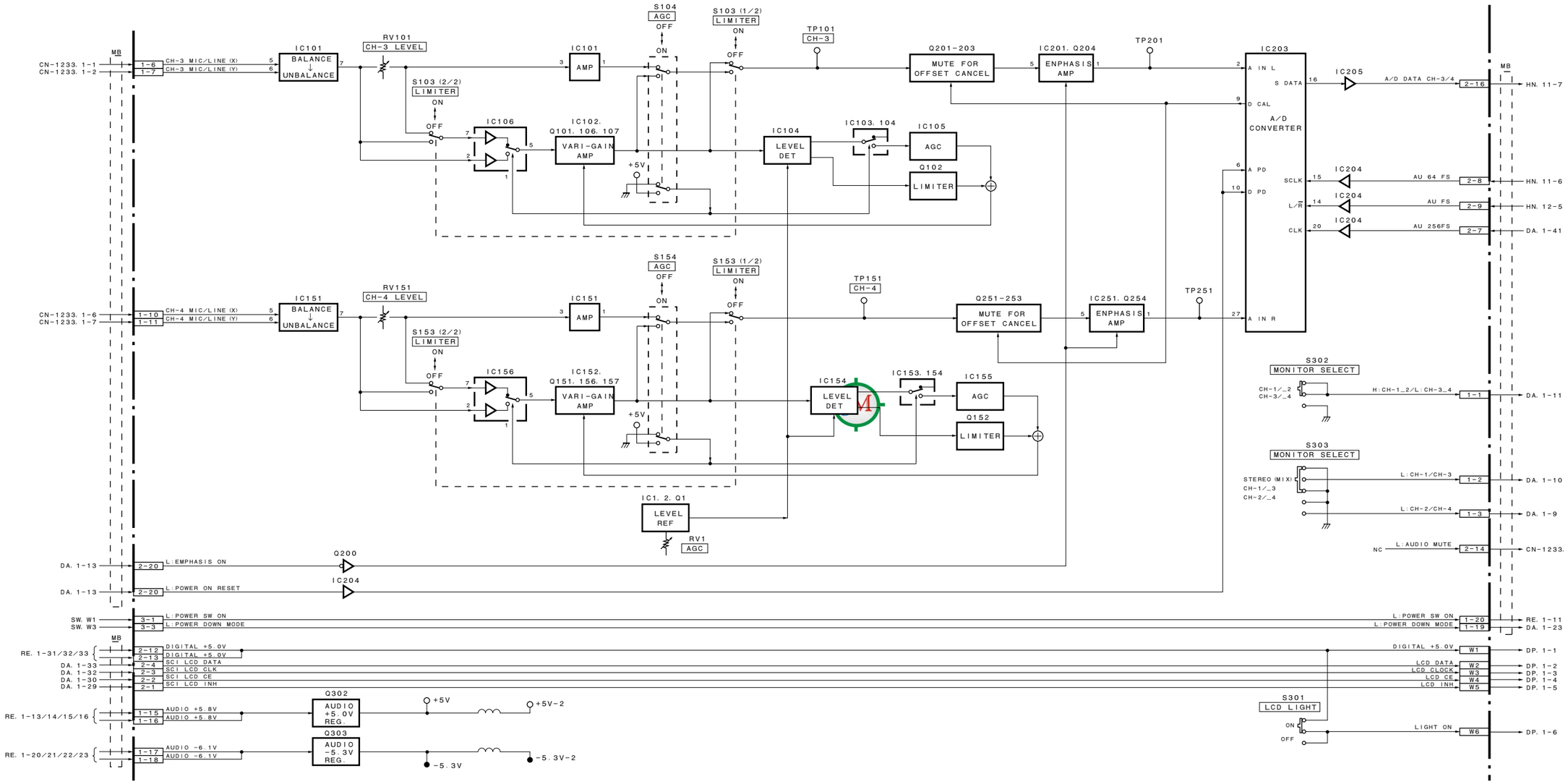


Section 5
Block Diagrams

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

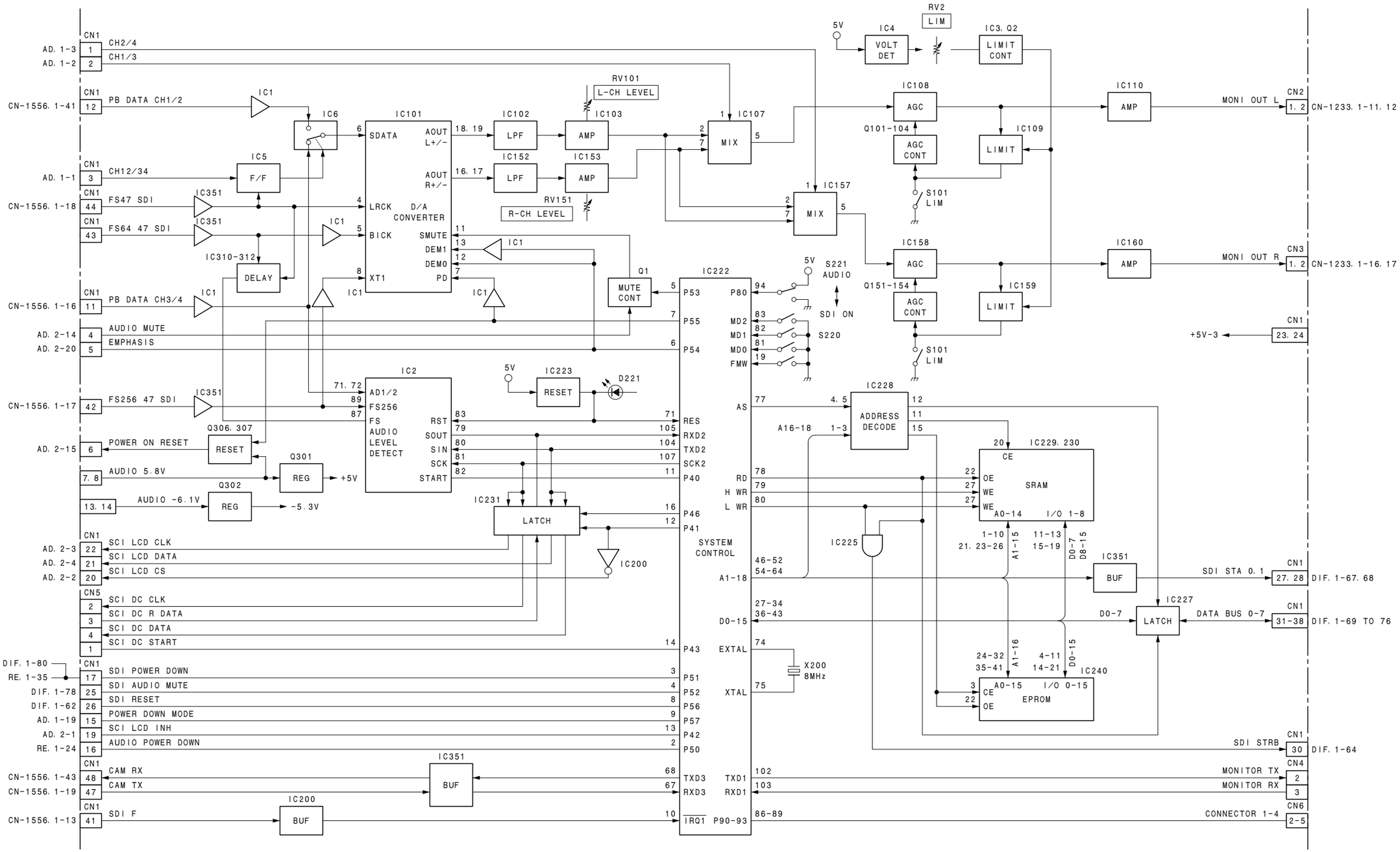


HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

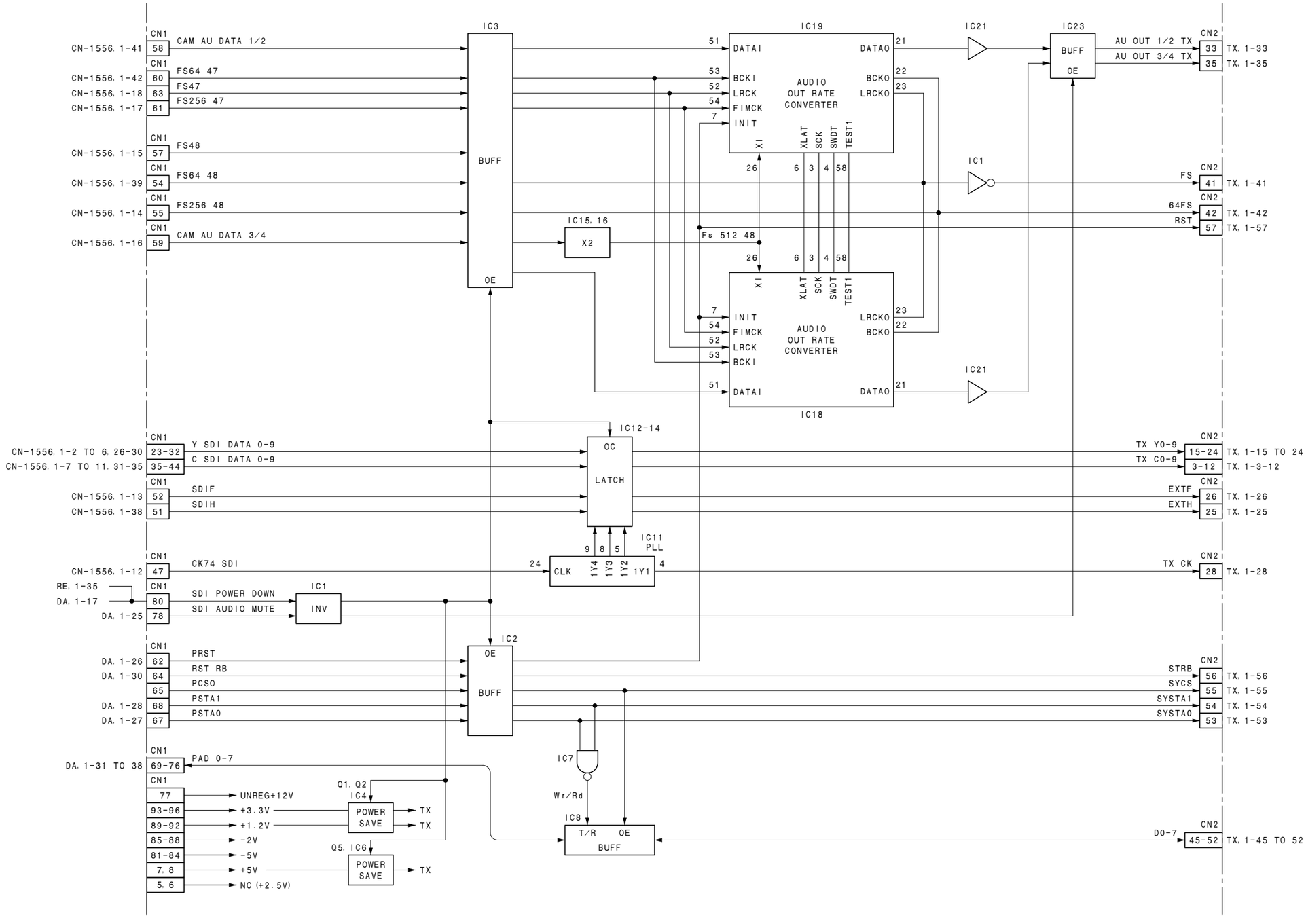


A/D Converter
AD-119

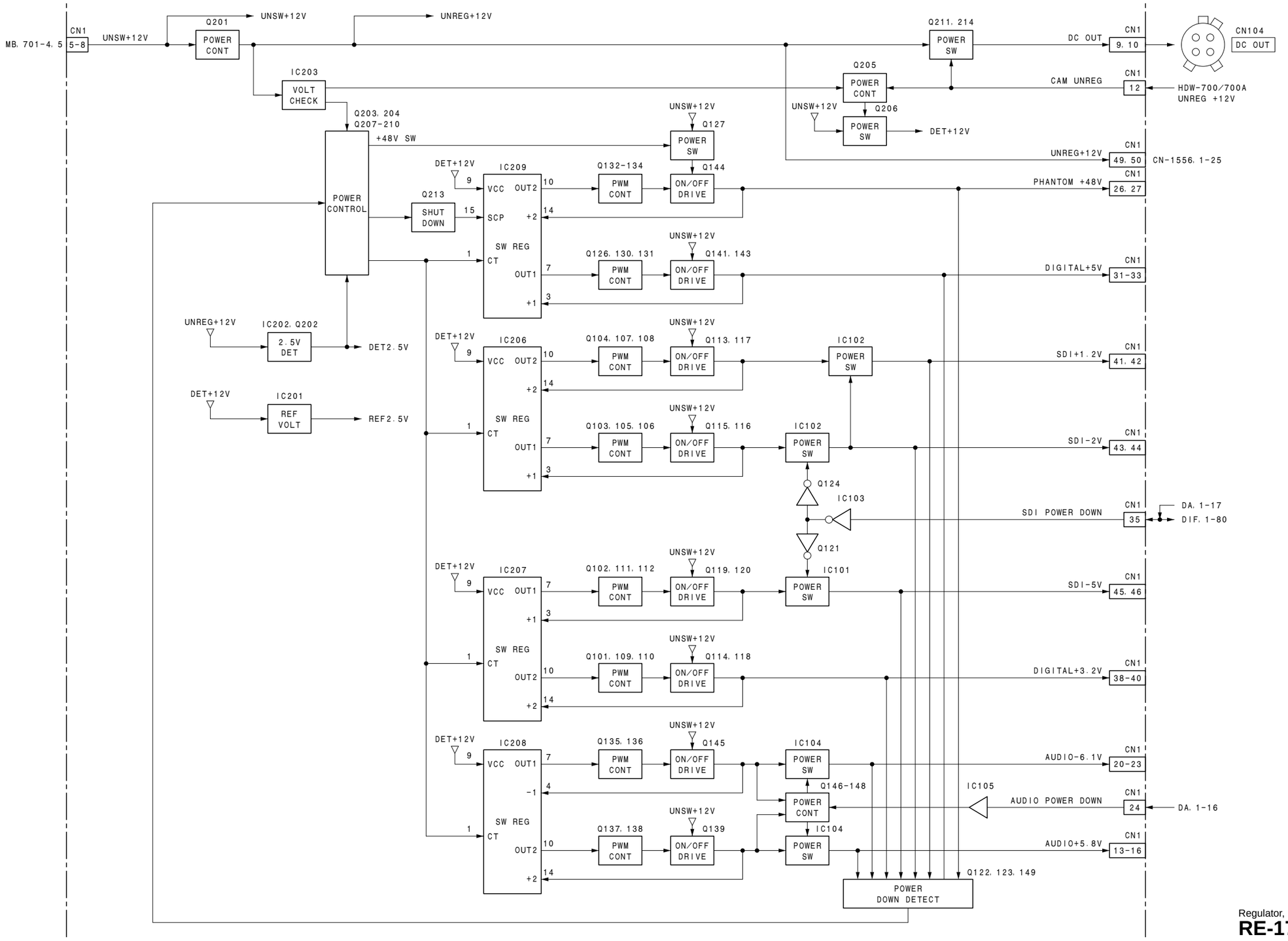
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



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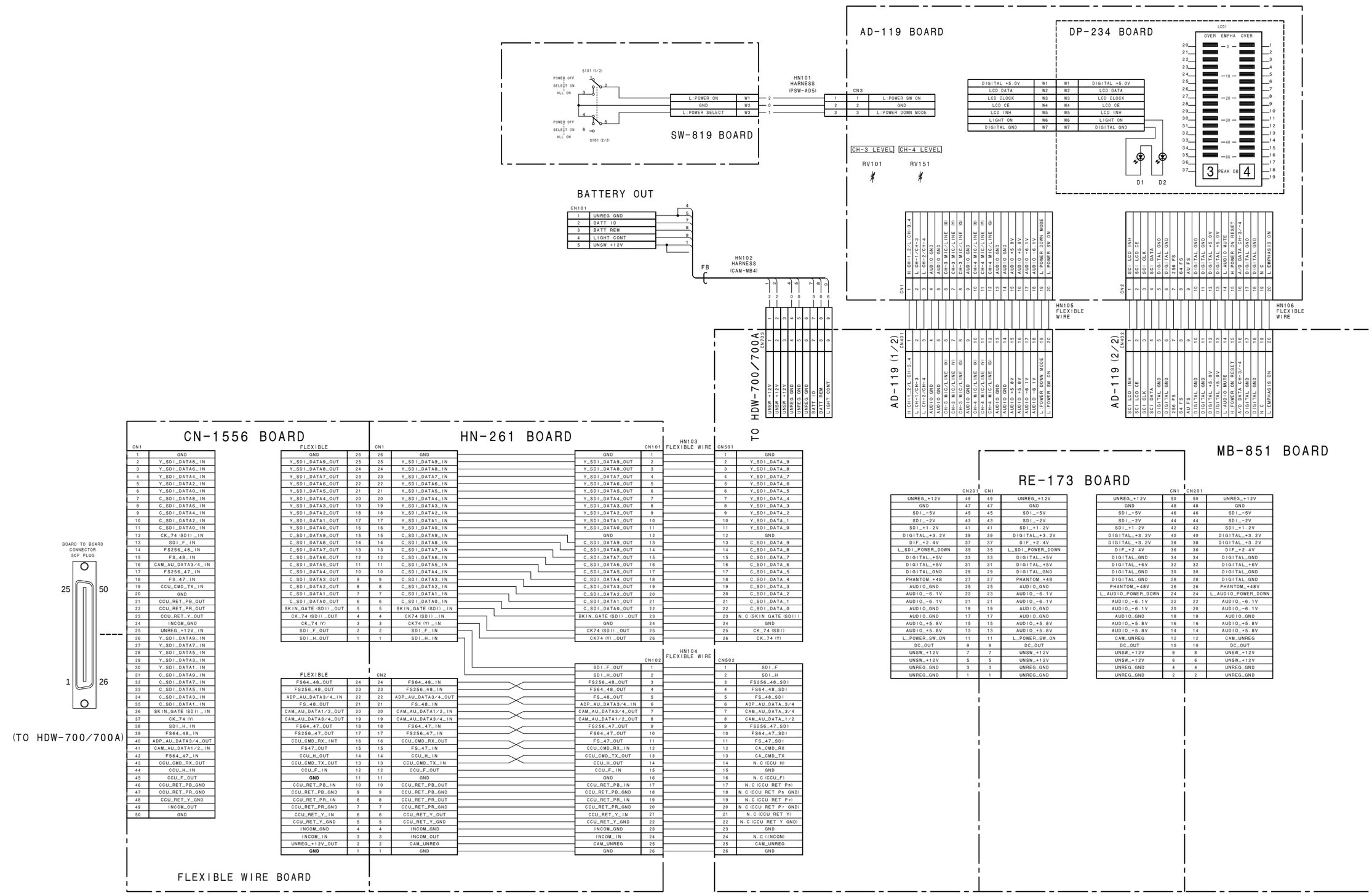
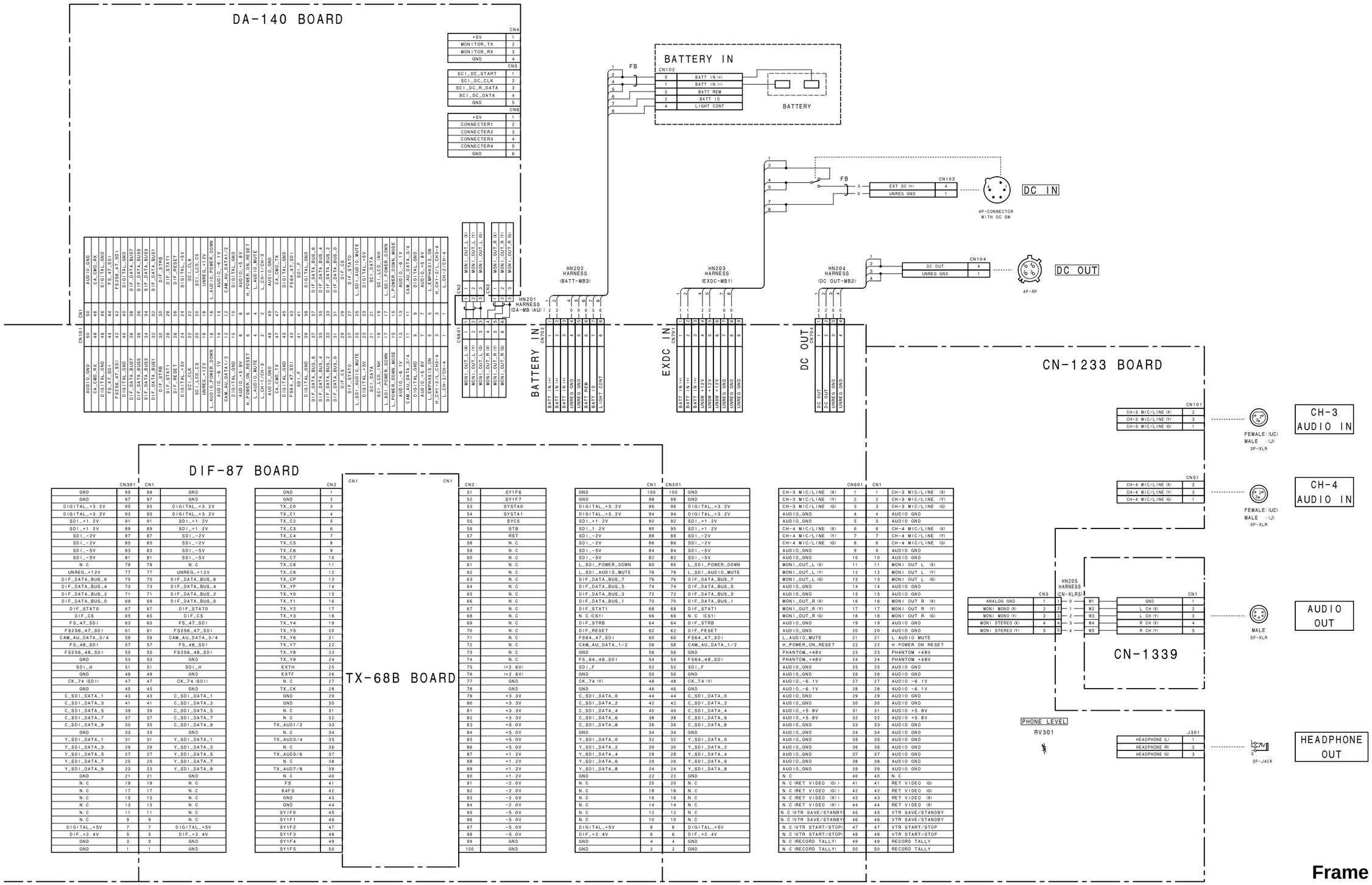
Section 6
Schematic Diagrams

6-1

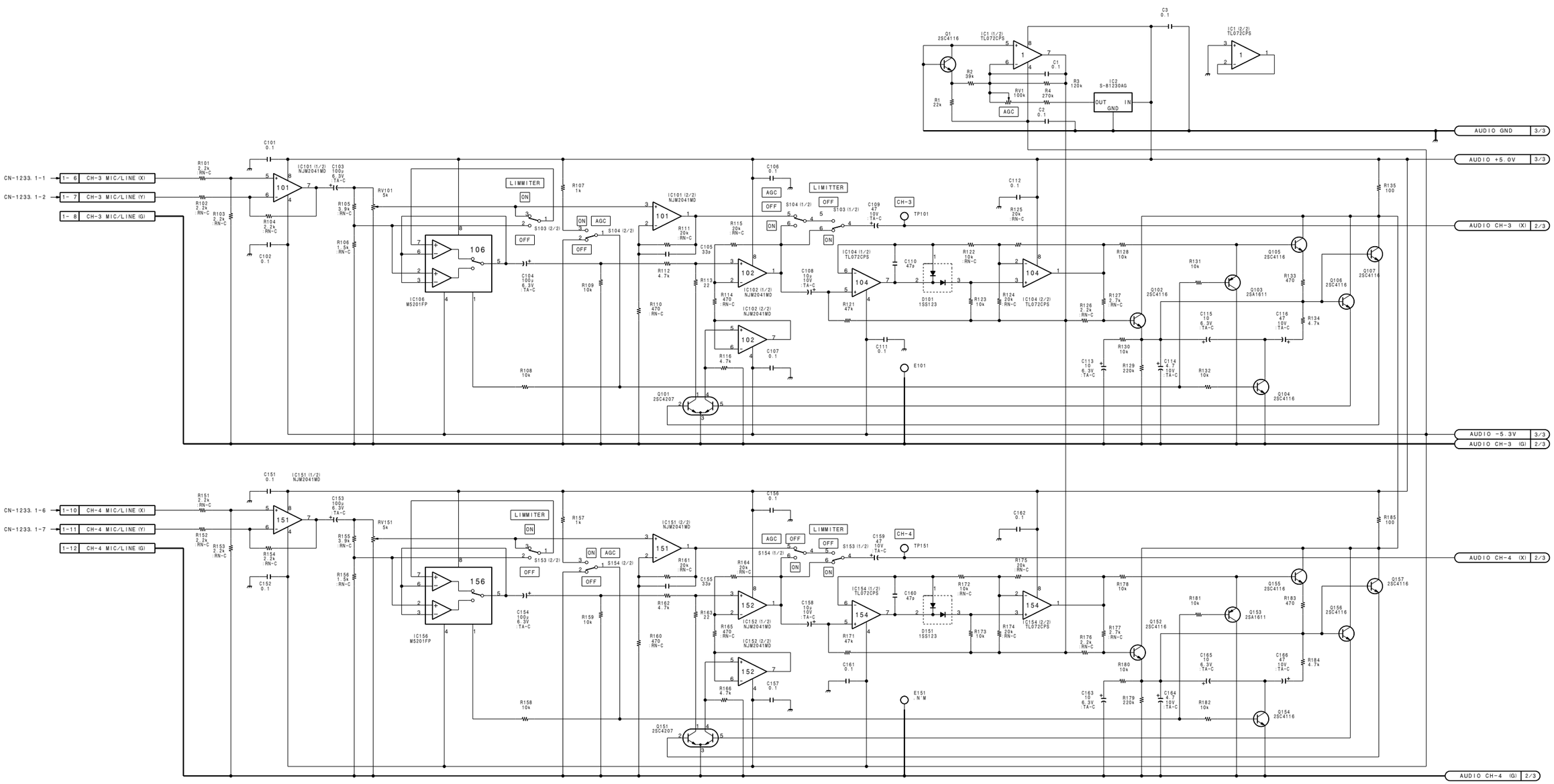
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher




DA-140 BOARD
CN4
+5V 1
MONITOR_TX 2
MONITOR_RX 3
GND 4
CN5
SCI_DC_START 1
SCI_DC_CLK 2
SCI_DC_R_DATA 3
SCI_DC_DATA 4
GND 5
CN6
+5V 1
CONNECTER1 2
CONNECTER2 3
CONNECTER3 4
CONNECTER4 5
GND 6
CN1 CN101
AUDIO_GND 50 50
CA_CMD_RX 48 48
DIGITAL_GND 46 46
FS_47_SDI 44 44
FS256_47_SDI 42 42
DIGITAL_GND 40 40
DIF_DATA_BUS7 38 38
DIF_DATA_BUS5 36 36
SIF_DATA_BUS3 34 34
DIF_DATA_BUS1 32 32
DIF_STRB 30 30
DIF_RESET 28 28
DIGITAL_+5V 24 24
SCI_CLK 22 22
SCI_LCD_CS 20 20
UNREG_+12V 18 18
L_AUDIO_POWER_DOWN 16 16
AUDIO_+6.1V 14 14
CAM_AU_DATA1/2 12 12
DIGITAL_GND 10 10
AUDIO_+5.8V 8 8
H_POWER_ON_RESET 6 6
L_AUDIO_MUTE 4 4
L_AUDIO_GND 2 2
CA_CMD_TX 47 47
DIGITAL_GND 45 45
FS64_47_SDI 43 43
SDI_F 41 41
DIGITAL_GND 39 39
DIF_DATA_BUS_6 37 37
DIF_DATA_BUS_4 35 35
DIF_DATA_BUS_2 33 33
DIF_DATA_BUS_0 31 31
DIF_CS 29 29
DIF_STATO 27 27
L_SDI_AUDIO_MUTE 25 25
DIGITAL_+5V 23 23
SCI_DATA 21 21
SCI_LCD_INH 19 19
L_SDI_POWER_DOWN 17 17
L_POWER_DOWN_MODE 15 15
AUDIO_-6.1V 13 13
CAM_AU_DATA_3/4 11 11
DIGITAL_GND 9 9
AUDIO_+5.8V 7 7
L_EMPHASIS_ON 5 5
H_CH1-2/L_CH3-4 3 3
L_CH-2/CH-4 1 1
CN2 MONI_OUT_L (X) MONI_OUT_L (Y) MONI_OUT_L (G)
CN3 MONI_OUT_R (X) MONI_OUT_R (Y) MONI_OUT_R (G)
HN201 HARNESS (DA-MB (AU))
HN202 HARNESS (BATT-MB3)
HN203 HARNESS (EXDC-MB1)
HN204 HARNESS (DC OUT-MB2)
BATTERY IN
CN102
BATT IN (+) 5
BATT IN (-) 1
BATT REM 3
BATT ID 2
LIGHT CONT 4
BATTERY
FB
DC IN
CN103
EXT DC (+) 4
UNREG GND 1
4P-CONNECTOR WITH DC SW
DC OUT
CN104
DC OUT 4
UNREG GND 1
4P-RF
CN-1233 BOARD
CN101
CH-3 MIC/LINE (X) 2
CH-3 MIC/LINE (Y) 3
CH-3 MIC/LINE (G) 1
FEMALE: (UC)
MALE : (J)
3P-XLR
CH-3 AUDIO IN
CN51
CH-4 MIC/LINE (X) 2
CH-4 MIC/LINE (Y) 3
CH-4 MIC/LINE (G) 1
CH-4 AUDIO IN
HN205 HARNESS (CN-XLR5)
ANALOG GND 1
MONI MONO (X) 2
MONI MONO (Y) 3
MONI STEREO (X) 4
MONI STEREO (Y) 5
GND 1
L CH (X) 2
L CH (Y) 3
R CH (X) 4
R CH (Y) 5
MALE
5P-XLR
AUDIO OUT
CN-1339
PHONE LEVEL
RV301
J301
HEADPHONE (L) 1
HEADPHONE (R) 2
HEADPHONE (G) 3
3P-JACK
HEADPHONE OUT
DIF-87 BOARD
CN301 CN1
GND 99 99 GND
GND 97 97 GND
DIGITAL_+3.2V 95 95 DIGITAL_+3.2V
DIGITAL_+3.2V 93 93 DIGITAL_+3.2V
SDI_+1.2V 91 91 SDI_+1.2V
SDI_+1.2V 89 89 SDI_+1.2V
SDI_-2V 87 87 SDI_-2V
SDI_-2V 85 85 SDI_-2V
SDI_-5V 83 83 SDI_-5V
SDI_-5V 81 81 SDI_-5V
N.C 79 79 N.C
UNREG_+12V 77 77 UNREG_+12V
DIF_DATA_BUS_6 75 75 DIF_DATA_BUS_6
DIF_DATA_BUS_4 73 73 DIF_DATA_BUS_4
DIF_DATA_BUS_2 71 71 DIF_DATA_BUS_2
DIF_DATA_BUS_0 69 69 DIF_DATA_BUS_0
DIF_STATO 67 67 DIF_STATO
DIF_CS 65 65 DIF_CS
FS_47_SDI 63 63 FS_47_SDI
FS256_47_SDI 61 61 FS256_47_SDI
CAM_AU_DATA_3/4 59 59 CAM_AU_DATA_3/4
FS_48_SDI 57 57 FS_48_SDI
FS256_48_SDI 55 55 FS256_48_SDI
GND 53 53 GND
SDI_H 51 51 SDI_H
GND 49 49 GND
CK_74(SDI) 47 47 CK_74(SDI)
GND 45 45 GND
C_SDI_DATA_1 43 43 C_SDI_DATA_1
C_SDI_DATA_3 41 41 C_SDI_DATA_3
C_SDI_DATA_5 39 39 C_SDI_DATA_5
C_SDI_DATA_7 37 37 C_SDI_DATA_7
C_SDI_DATA_9 35 35 C_SDI_DATA_9
GND 33 33 GND
Y_SDI_DATA_1 31 31 Y_SDI_DATA_1
Y_SDI_DATA_3 29 29 Y_SDI_DATA_3
Y_SDI_DATA_5 27 27 Y_SDI_DATA_5
Y_SDI_DATA_7 25 25 Y_SDI_DATA_7
Y_SDI_DATA_9 23 23 Y_SDI_DATA_9
GND 21 21 GND
N.C 19 19 N.C
N.C 17 17 N.C
N.C 15 15 N.C
N.C 13 13 N.C
N.C 11 11 N.C
N.C 9 9 N.C
DIGITAL_+5V 7 7 DIGITAL_+5V
DIF_+2.4V 5 5 DIF_+2.4V
GND 3 3 GND
GND 1 1 GND
TX-68B BOARD
CN1 CN2
GND 1 51 SY1F6
GND 2 52 SY1F7
TX_C0 3 53 SYSTA0
TX_C1 4 54 SYSTA1
TX_C2 5 55 SYCS
TX_C3 6 56 STB
TX_C4 7 57 RST
TX_C5 8 58 N.C
TX_C6 9 59 N.C
TX_C7 10 60 N.C
TX_C8 11 61 N.C
TX_C9 12 62 N.C
TX_CP 13 63 N.C
TX_YP 14 64 N.C
TX_Y0 15 65 N.C
TX_Y1 16 66 N.C
TX_Y2 17 67 N.C
TX_Y3 18 68 N.C
TX_Y4 19 69 N.C
TX_Y5 20 70 N.C
TX_Y6 21 71 N.C
TX_Y7 22 72 N.C
TX_Y8 23 73 N.C
TX_Y9 24 74 N.C
EXTH 25 75 (+2.6V)
EXTF 26 76 (+2.6V)
N.C 27 77 GND
TX_CK 28 78 GND
GND 29 79 +3.3V
GND 30 80 +3.3V
N.C 31 81 +3.3V
N.C 32 82 +3.3V
TX_AUD1/2 33 83 +5.0V
N.C 34 84 +5.0V
TX_AUD3/4 35 85 +5.0V
N.C 36 86 +5.0V
TX_AUD5/6 37 87 +1.2V
N.C 38 88 +1.2V
TX_AUD7/8 39 89 +1.2V
N.C 40 90 +1.2V
FS 41 91 -2.0V
64FS 42 92 -2.0V
GND 43 93 -2.0V
GND 44 94 -2.0V
SY1F0 45 95 -5.0V
SY1F1 46 96 -5.0V
SY1F2 47 97 -5.0V
SY1F3 48 98 -5.0V
SY1F4 49 99 GND
SY1F5 50 100 GND
CN1 CN301
GND 100 100 GND
GND 98 98 GND
DIGITAL_+3.2V 96 96 DIGITAL_+3.2V
DIGITAL_+3.2V 94 94 DIGITAL_+3.2V
SDI_+1.2V 92 92 SDI_+1.2V
SDI_+1.2V 90 90 SDI_+1.2V
SDI_-2V 88 88 SDI_-2V
SDI_-2V 86 86 SDI_-2V
SDI_-5V 84 84 SDI_-5V
SDI_-5V 82 82 SDI_-5V
L_SDI_POWER_DOWN 80 80 L_SDI_POWER_DOWN
L_SDI_AUDIO_MUTE 78 78 L_SDI_AUDIO_MUTE
DIF_DATA_BUS_7 76 76 DIF_DATA_BUS_7
DIF_DATA_BUS_5 74 74 DIF_DATA_BUS_5
DIF_DATA_BUS_3 72 72 DIF_DATA_BUS_3
DIF_DATA_BUS_1 70 70 DIF_DATA_BUS_1
DIF_STAT1 68 68 DIF_STAT1
N.C(CS1) 66 66 N.C(CS1)
DIF_STRB 64 64 DIF_STRB
DIF_RESET 62 62 DIF_RESET
FS64_47_SDI 60 60 FS64_47_SDI
CAM_AU_DATA_1/2 58 58 CAM_AU_DATA_1/2
GND 56 56 GND
FS_64_48_SDI 54 54 FS64_48_SDI
SDI_F 52 52 SDI_F
GND 50 50 GND
CK_74(Y) 48 48 CK_74(Y)
GND 46 46 GND
C_SDI_DATA_0 44 44 C_SDI_DATA_0
C_SDI_DATA_2 42 42 C_SDI_DATA_2
C_SDI_DATA_4 40 40 C_SDI_DATA_4
C_SDI_DATA_6 38 38 C_SDI_DATA_6
C_SDI_DATA_8 36 36 C_SDI_DATA_8
GND 34 34 GND
Y_SDI_DATA_0 32 32 Y_SDI_DATA_0
Y_SDI_DATA_2 30 30 Y_SDI_DATA_2
Y_SDI_DATA_4 28 28 Y_SDI_DATA_4
Y_SDI_DATA_6 26 26 Y_SDI_DATA_6
Y_SDI_DATA_8 24 24 Y_SDI_DATA_8
GND 22 22 GND
N.C 20 20 N.C
N.C 18 18 N.C
N.C 16 16 N.C
N.C 14 14 N.C
N.C 12 12 N.C
N.C 10 10 N.C
DIGITAL_+5V 8 8 DIGITAL_+5V
DIF_+2.4V 6 6 DIF_+2.4V
GND 4 4 GND
GND 2 2 GND
CN601 CN1
CH-3 MIC/LINE (X) 1 1 CH-3 MIC/LINE (X)
CH-3 MIC/LINE (Y) 2 2 CH-3 MIC/LINE (Y)
CH-3 MIC/LINE (G) 3 3 CH-3 MIC/LINE (G)
AUDIO_GND 4 4 AUDIO GND
AUDIO_GND 5 5 AUDIO GND
CH-4 MIC/LINE (X) 6 6 CH-4 MIC/LINE (X)
CH-4 MIC/LINE (Y) 7 7 CH-4 MIC/LINE (Y)
CH-4 MIC/LINE (G) 8 8 CH-4 MIC/LINE (G)
AUDIO_GND 9 9 AUDIO GND
AUDIO_GND 10 10 AUDIO GND
MONI_OUT_L (X) 11 11 MONI OUT L (X)
MONI_OUT_L (Y) 12 12 MONI OUT L (Y)
MONI_OUT_L (G) 13 13 MONI OUT L (G)
AUDIO_GND 14 14 AUDIO GND
AUDIO_GND 15 15 AUDIO GND
MONI_OUT_R (X) 16 16 MONI OUT R (X)
MONI_OUT_R (Y) 17 17 MONI OUT R (Y)
MONI_OUT_R (G) 18 18 MONI OUT R (G)
AUDIO_GND 19 19 AUDIO GND
AUDIO_GND 20 20 AUDIO GND
L_AUDIO_MUTE 21 21 L AUDIO MUTE
H_POWER_ON_RESET 22 22 H POWER ON RESET
PHANTOM_+48V 23 23 PHANTOM +48V
PHANTOM_+48V 24 24 PHANTOM +48V
AUDIO_GND 25 25 AUDIO GND
AUDIO_GND 26 26 AUDIO GND
AUDIO_-6.1V 27 27 AUDIO -6.1V
AUDIO_-6.1V 28 28 AUDIO -6.1V
AUDIO_GND 29 29 AUDIO GND
AUDIO_GND 30 30 AUDIO GND
AUDIO_+5.8V 31 31 AUDIO +5.8V
AUDIO_+5.8V 32 32 AUDIO +5.8V
AUDIO_GND 33 33 AUDIO GND
AUDIO_GND 34 34 AUDIO GND
AUDIO_GND 35 35 AUDIO GND
AUDIO_GND 36 36 AUDIO GND
AUDIO_GND 37 37 AUDIO GND
AUDIO_GND 38 38 AUDIO GND
AUDIO_GND 39 39 AUDIO GND
N.C 40 40 N.C
N.C(RET VIDEO (G)) 41 41 RET VIDEO (G)
N.C(RET VIDEO (G)) 42 42 RET VIDEO (G)
N.C(RET VIDEO (X)) 43 43 RET VIDEO (X)
N.C(RET VIDEO (X)) 44 44 RET VIDEO (X)
N.C(VTR SAVE/STANBY) 45 45 VTR SAVE/STANDBY
N.C(VTR SAVE/STANBY) 46 46 VTR SAVE/STANDBY
N.C(VTR START/STOP) 47 47 VTR START/STOP
N.C(VTR START/STOP) 48 48 VTR START/STOP
N.C(RECORD TALLY) 49 49 RECORD TALLY
N.C(RECORD TALLY) 50 50 RECORD TALLY

AD-119 (1/3)

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



AD-119 (1/3)

BOARD NO. 1-659-727-11
LOT NO. 903-
B-¥CA701-AD119-11

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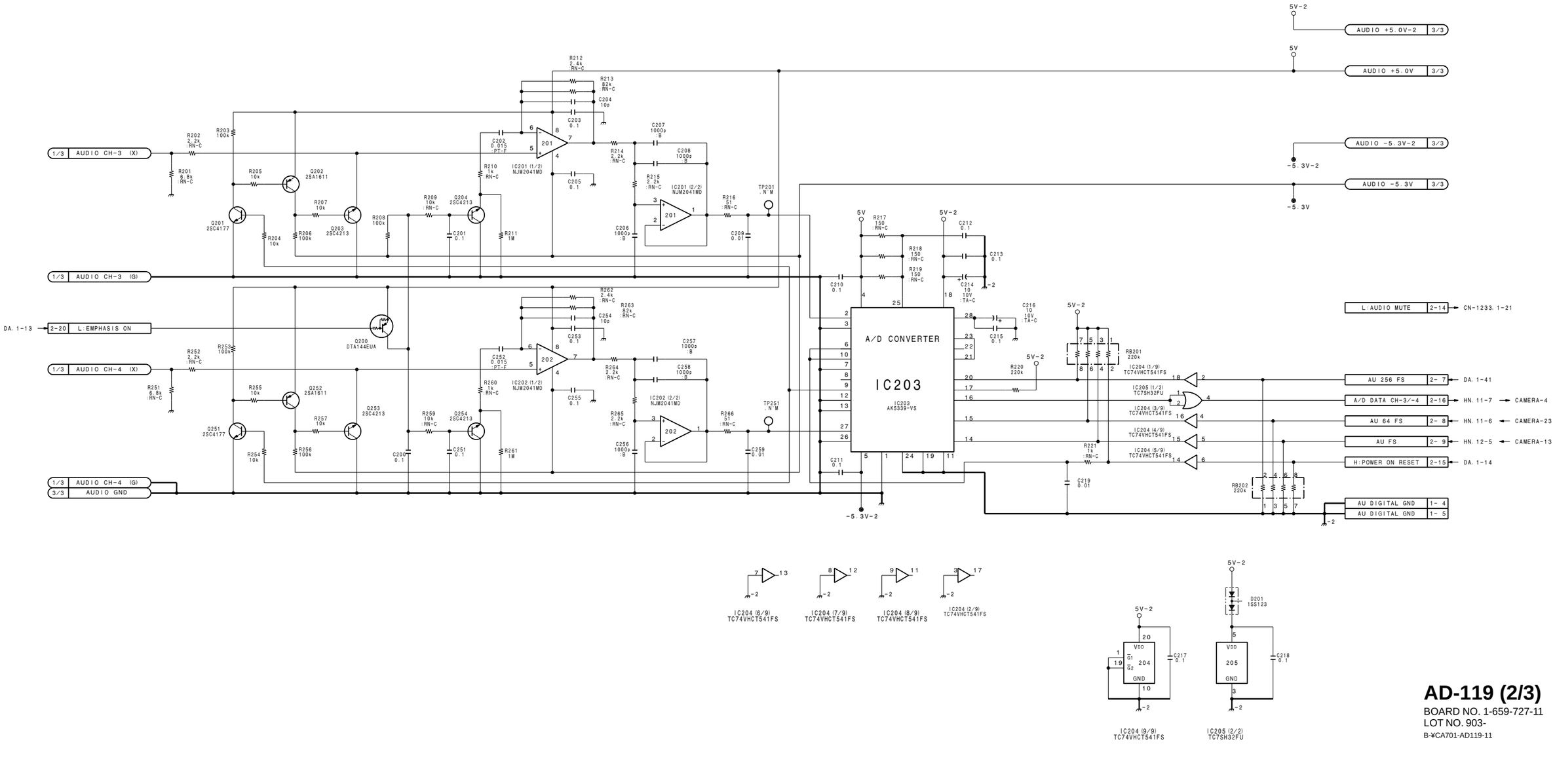
AD-119 (2/3)

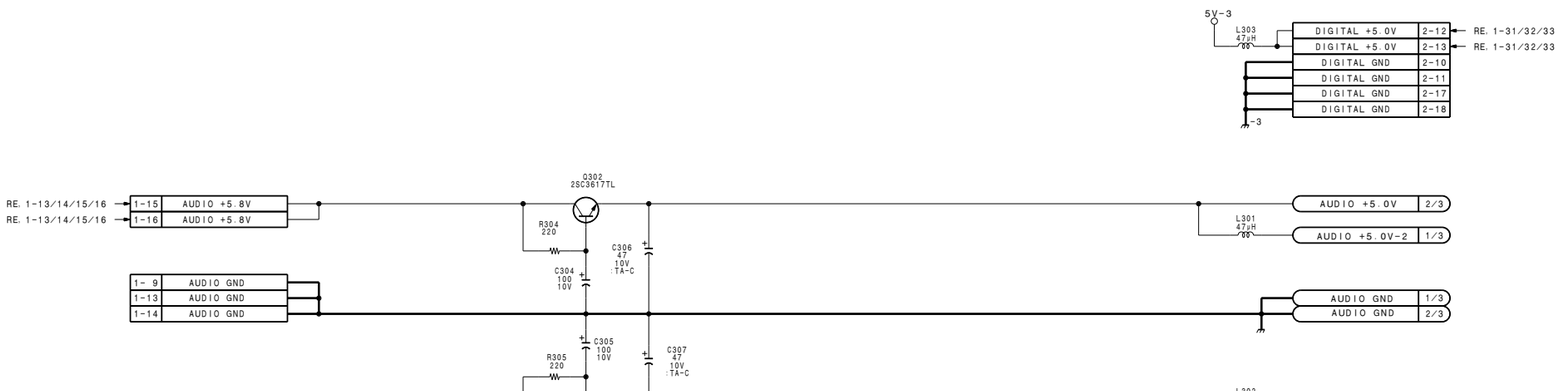
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

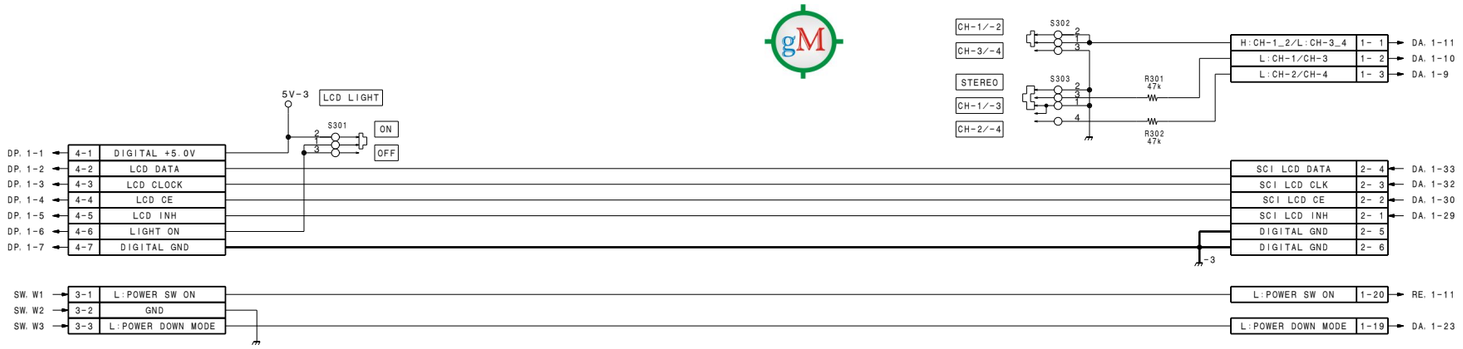


AD-119 (2/3)
BOARD NO. 1-659-727-11
LOT NO. 903-
B-¥CA701-AD119-11

AD-119 (3/3)

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



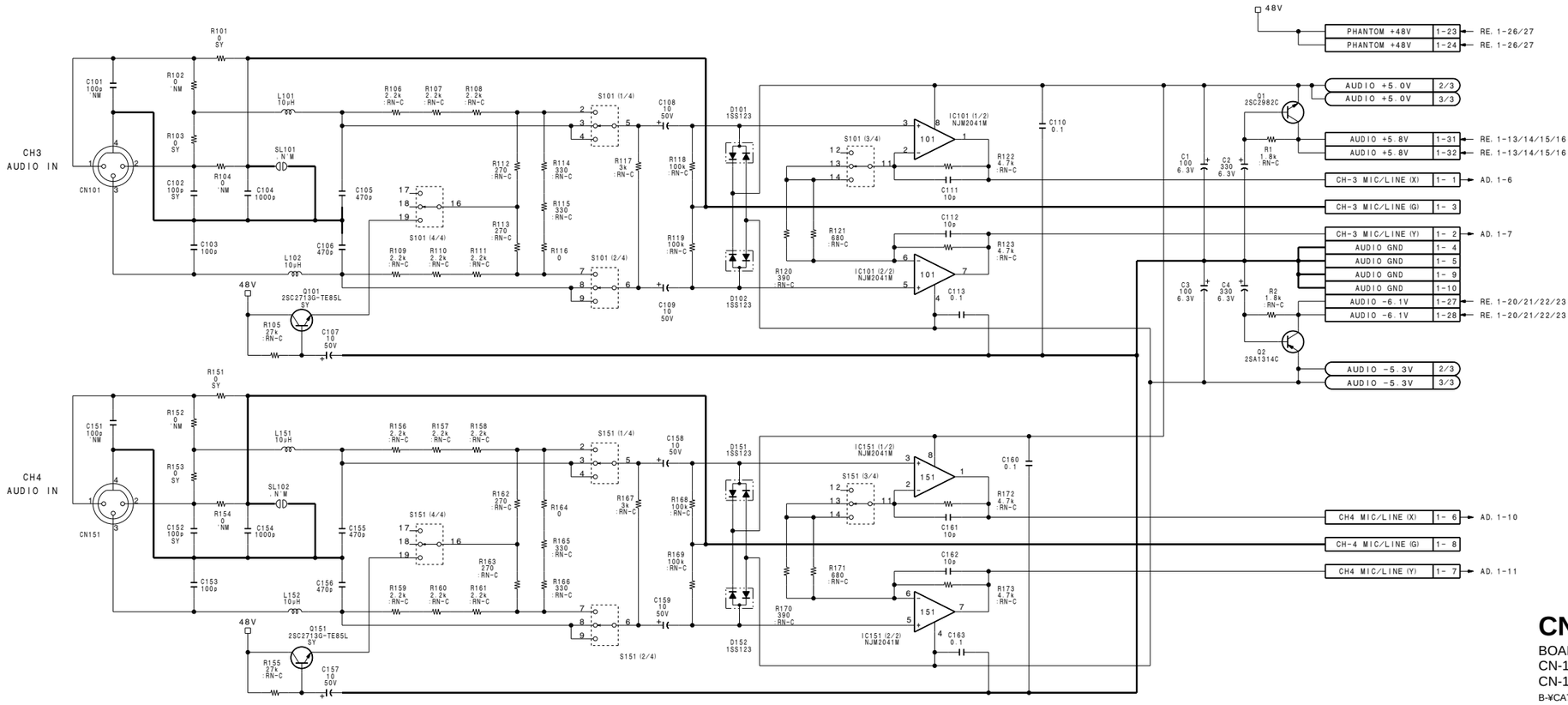


AD-119 (3/3)

BOARD NO. 1-659-727-11
LOT NO. 903-
B-¥CA701-AD119-11

6-6

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



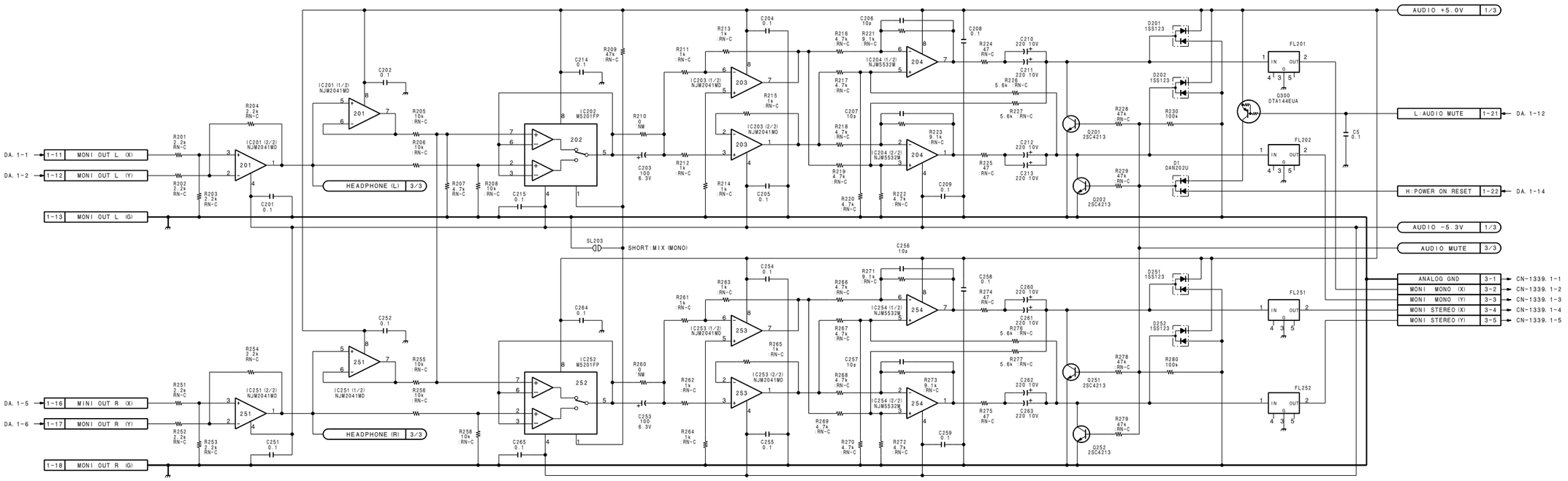
	SY	J
R101	0	N'M
R103	0	N'M
R102	N'M	0
R104	N'M	0
R151	0	N'M
R153	0	N'M
R152	N'M	0
R154	N'M	0
C101	N'M	100P
C102	100P	N'M
C151	N'M	100P
C152	100P	N'M
Q101	2CS2713G	N'M
Q151	2SC2713G	N'M
CN101	1-766-386-11	1-766-385-12
CN151	1-766-386-11	1-766-385-12

CN-1233/1233A (1/3)

BOARD NO. 1-659-732-12
CN-1233 BOARD FOR HDCA-701(J) : LOT NO. 903-
CN-1233A BOARD FOR HDCA-701(UC) : LOT NO. 903-
B-¥CA701-CN1233-11

CN-1233/1233A (2/3)

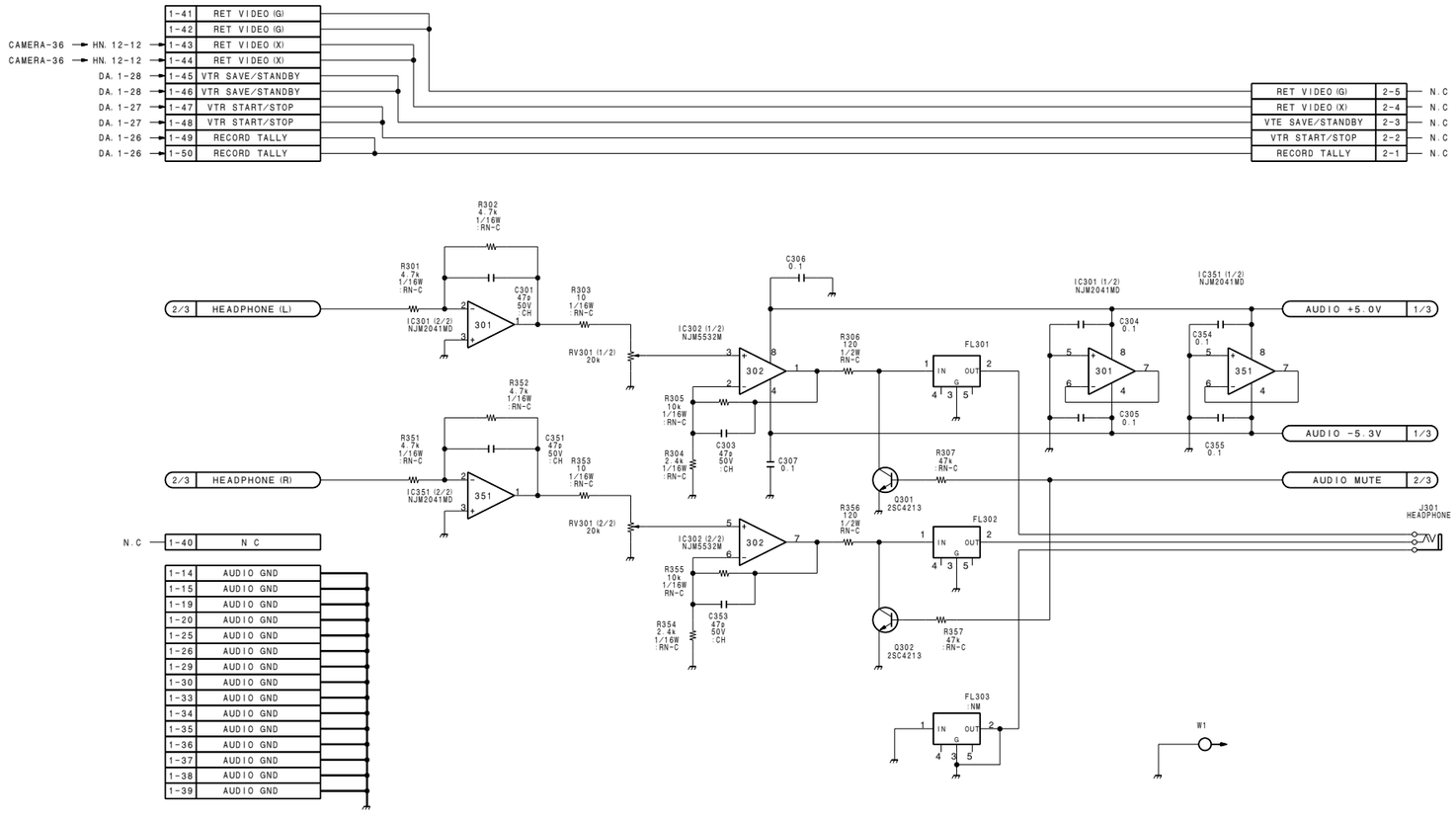
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



CN-1233/1233A (2/3)

BOARD NO. 1-659-732-12
CN-1233 BOARD FOR HDCA-701(J) : LOT NO. 903-
CN-1233A BOARD FOR HDCA-701(UC) : LOT NO. 903-
B-¥CA701-CN1233-11

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

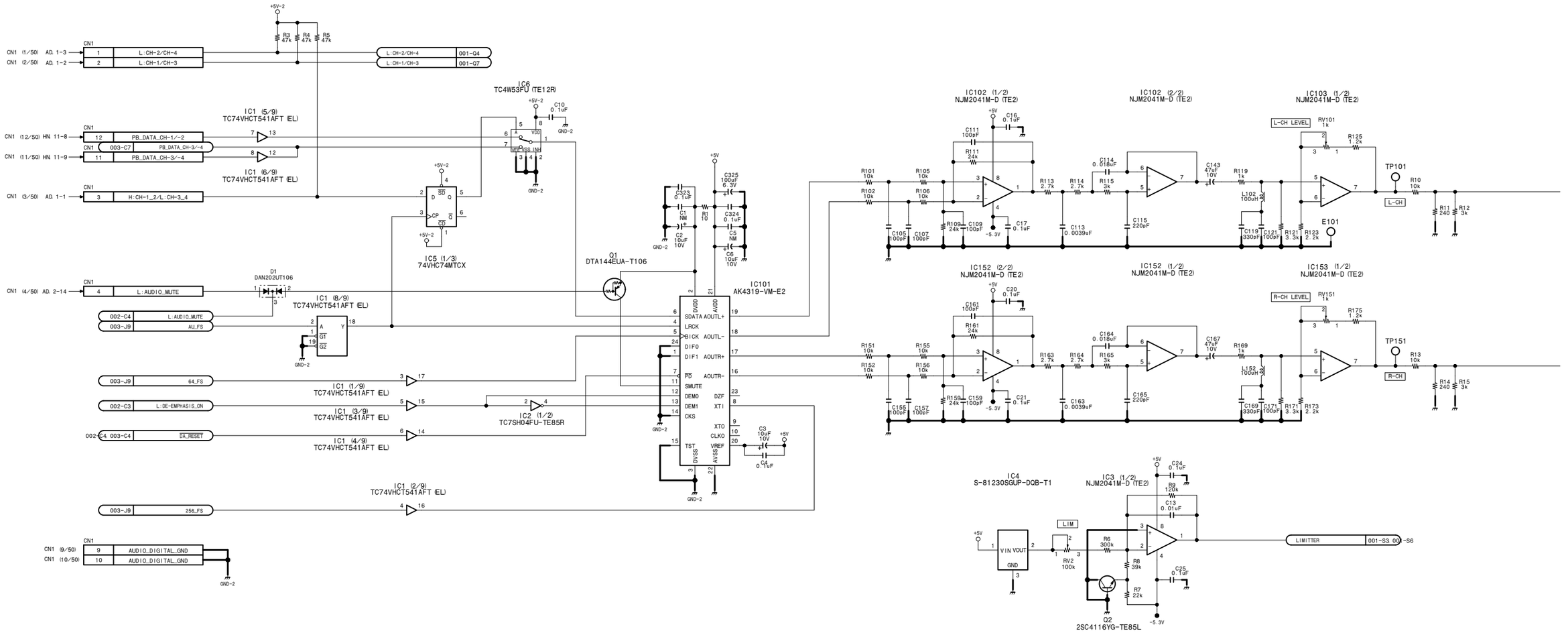


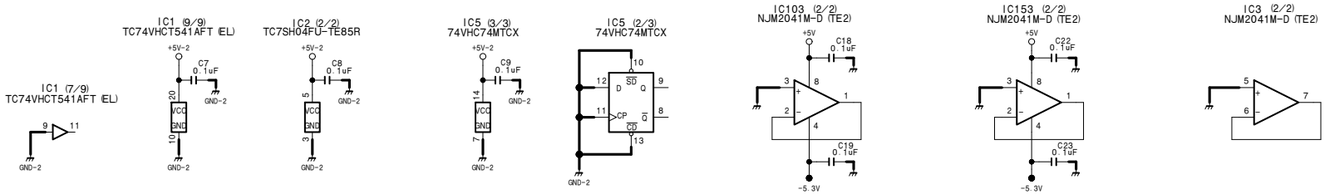
CN-1233/1233A (3/3)

BOARD NO. 1-659-732-12
CN-1233 BOARD FOR HDCA-701(J) : LOT NO. 903-
CN-1233A BOARD FOR HDCA-701(UC) : LOT NO. 903-
B-¥CA701-CN1233-11

DA-140 (1/3)

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher





6-10

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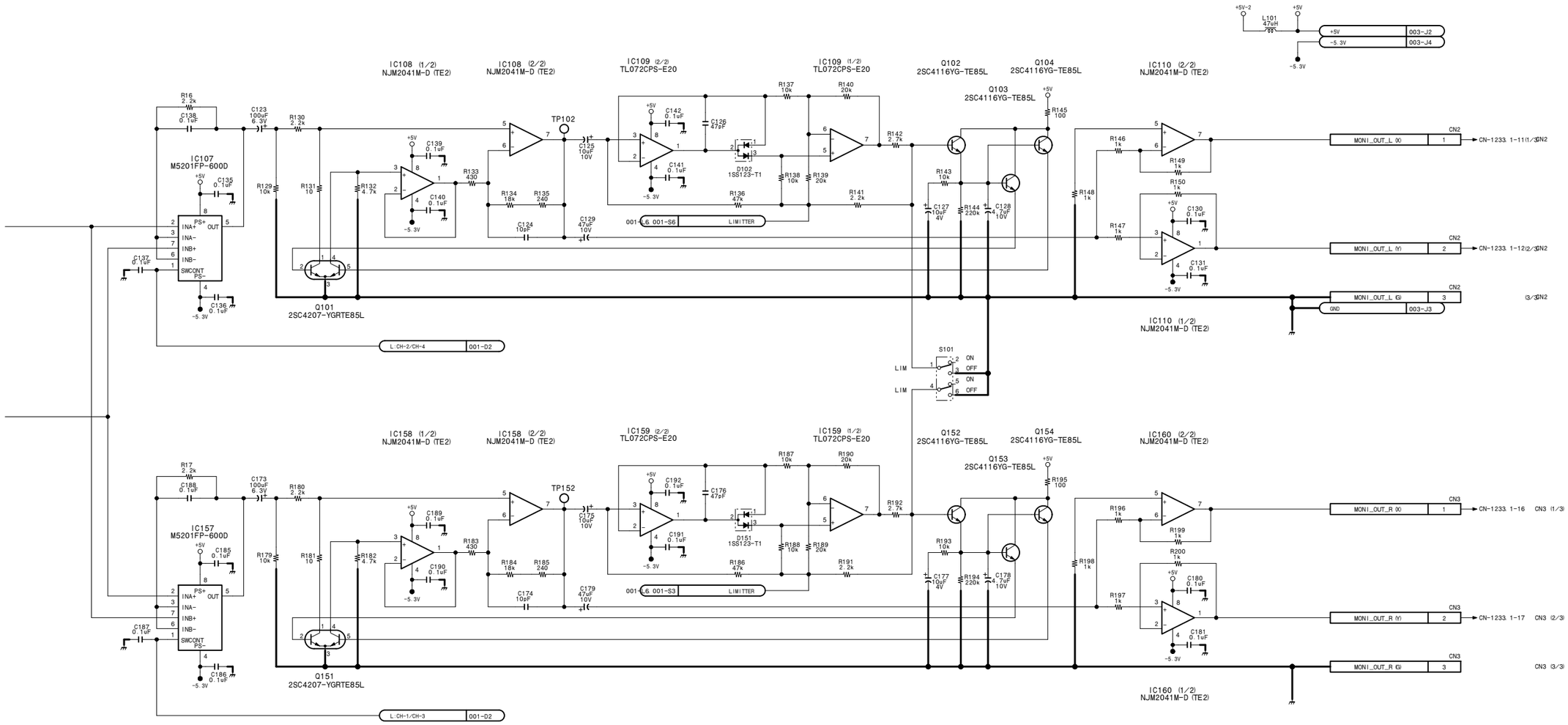
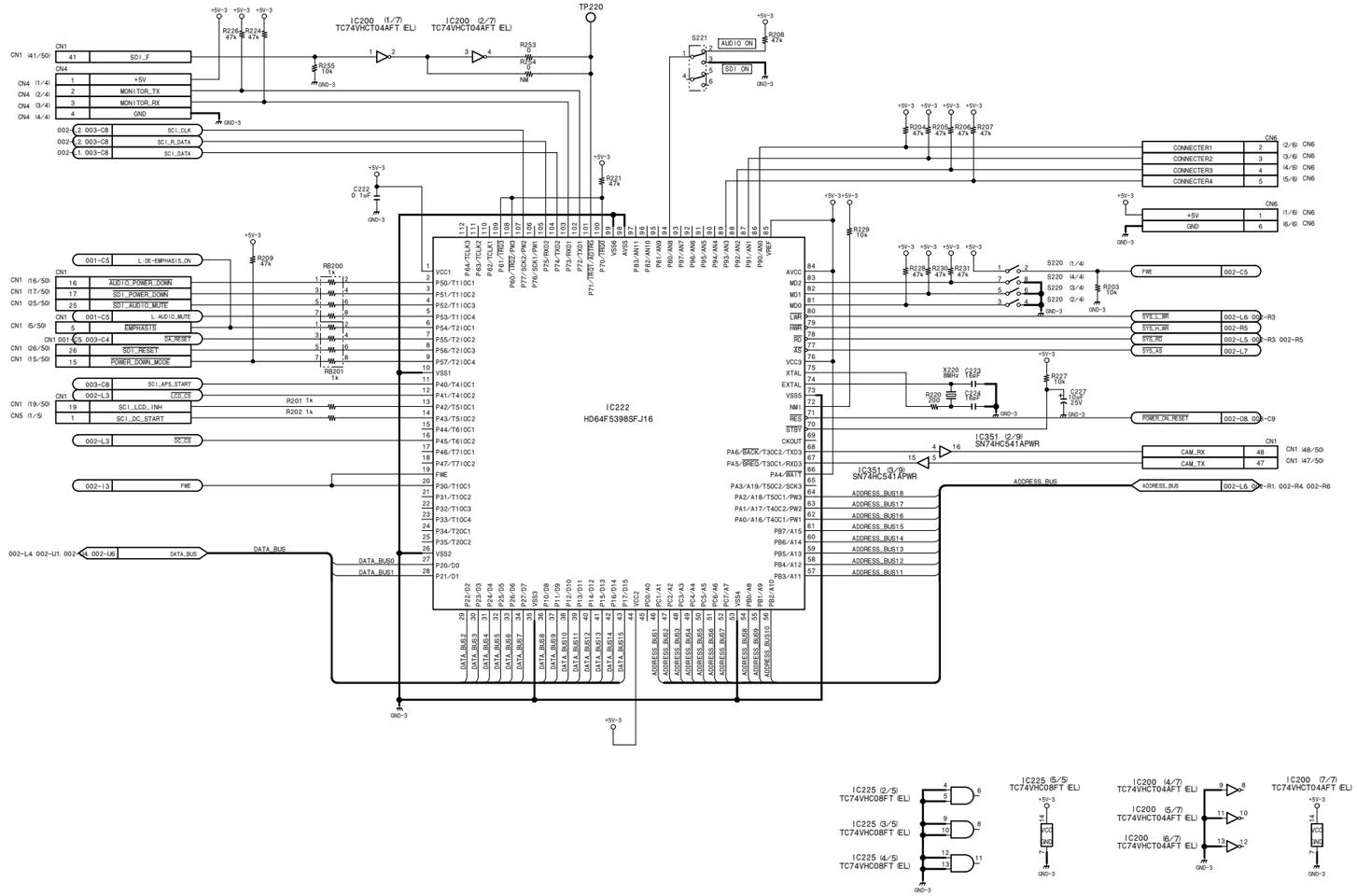


DA-140 (1/3)

BOARD NO. 1-674-900-11
LOT NO. 903-
HDCA-701_DA-140_001

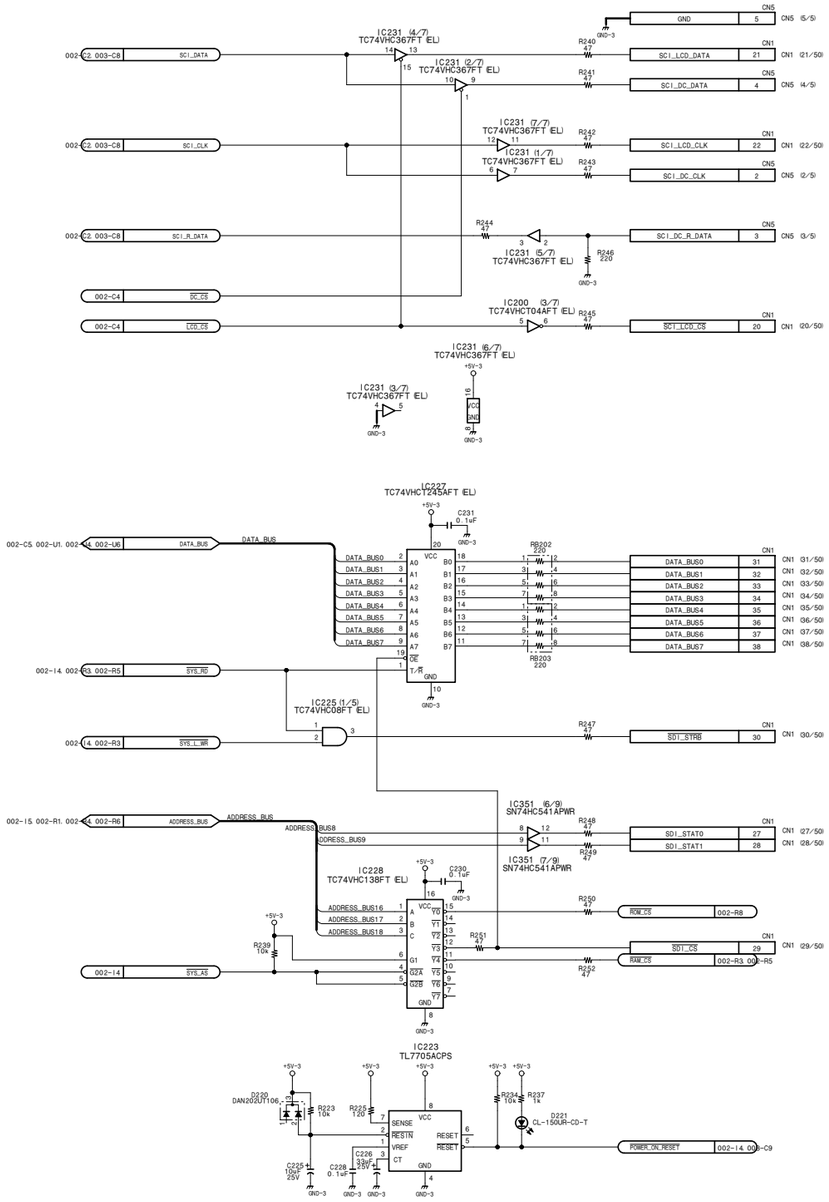
DA-140 (2/3)

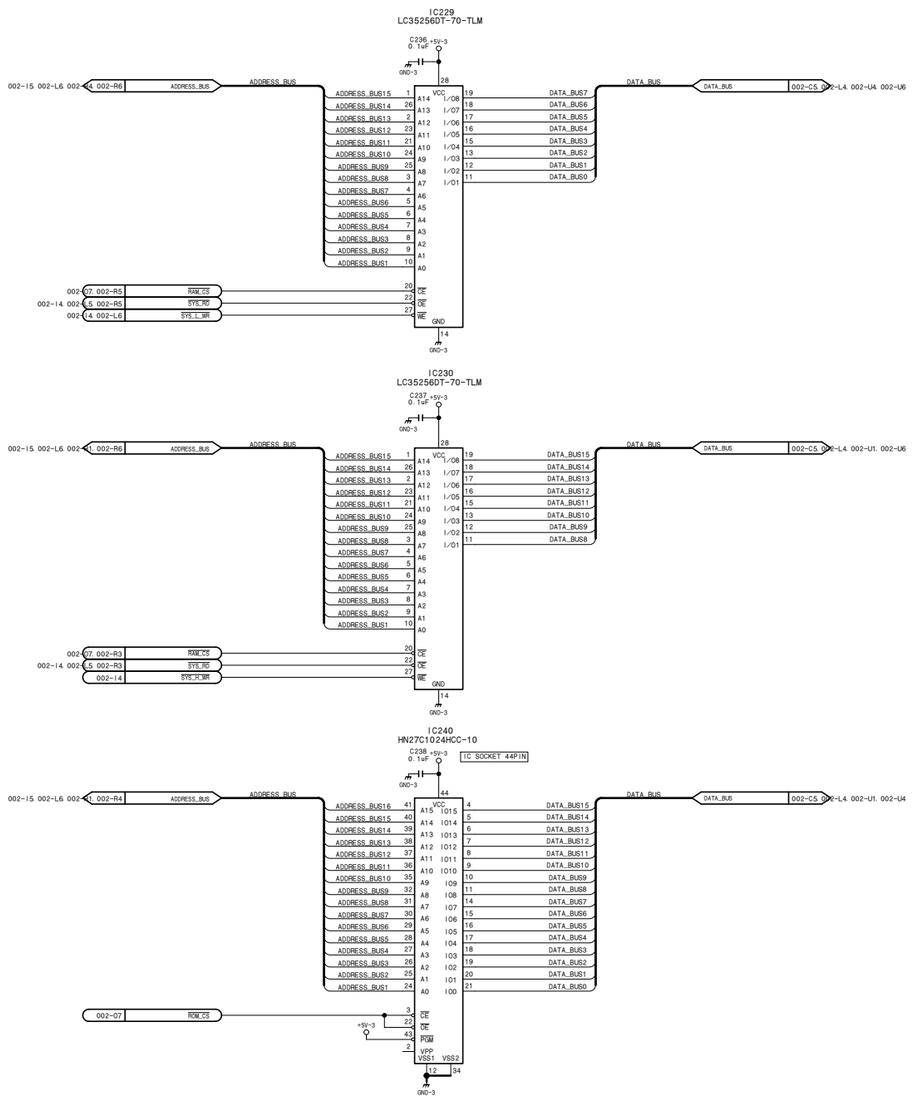
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

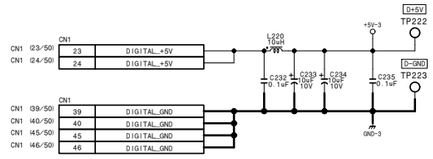


6-12

DA-140 (2/3)

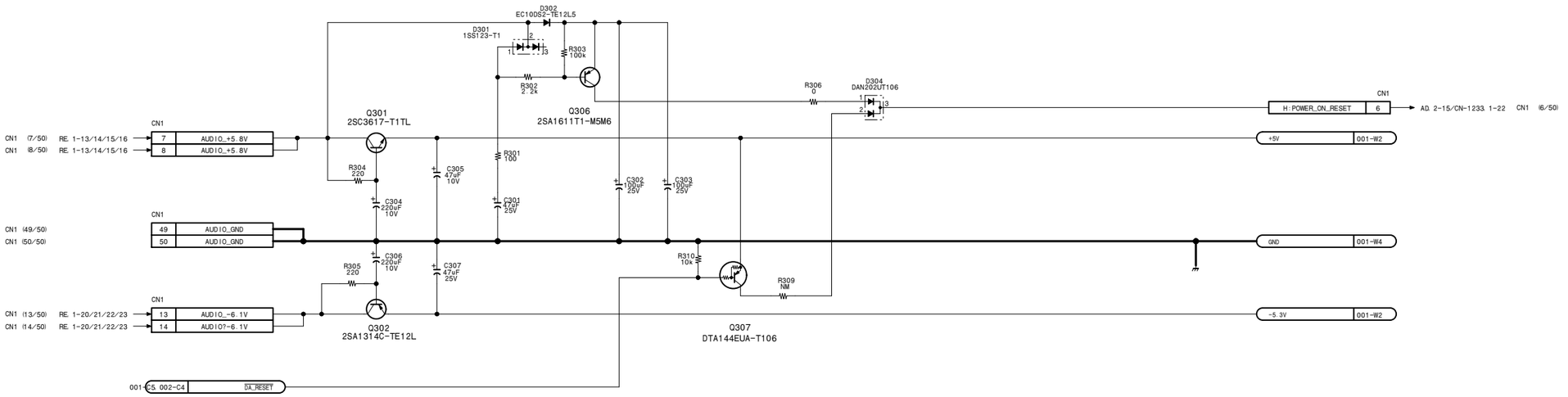


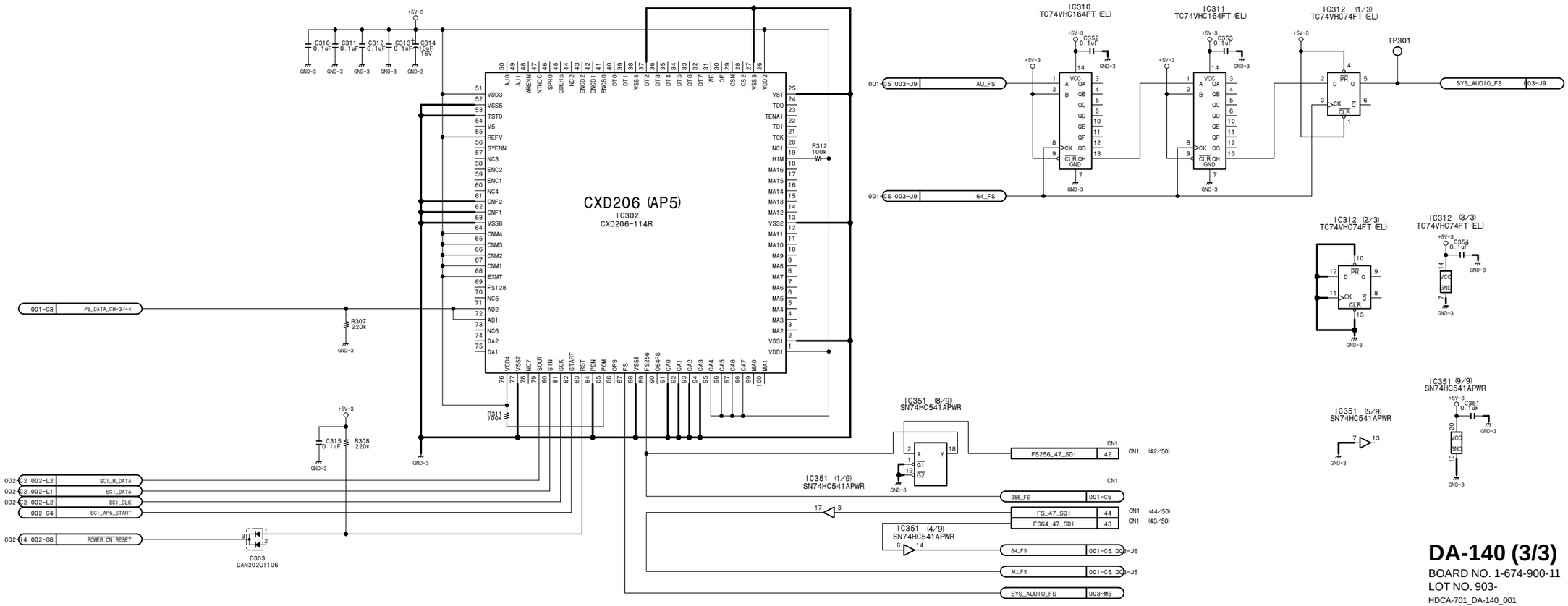




DA-140 (2/3)
BOARD NO. 1-674-900-11
LOT NO. 903-
HDCA-701_DA-140_001

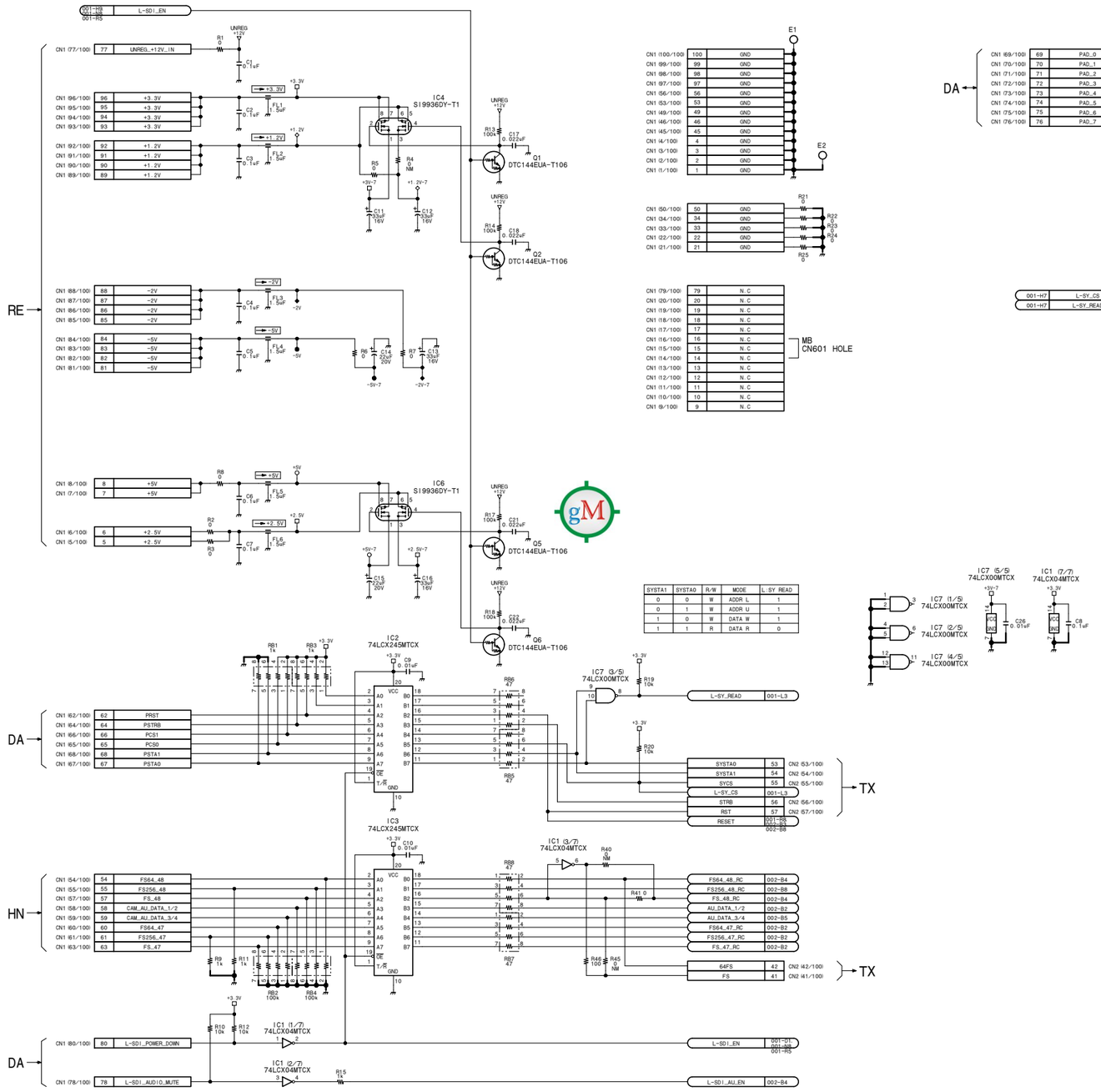
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

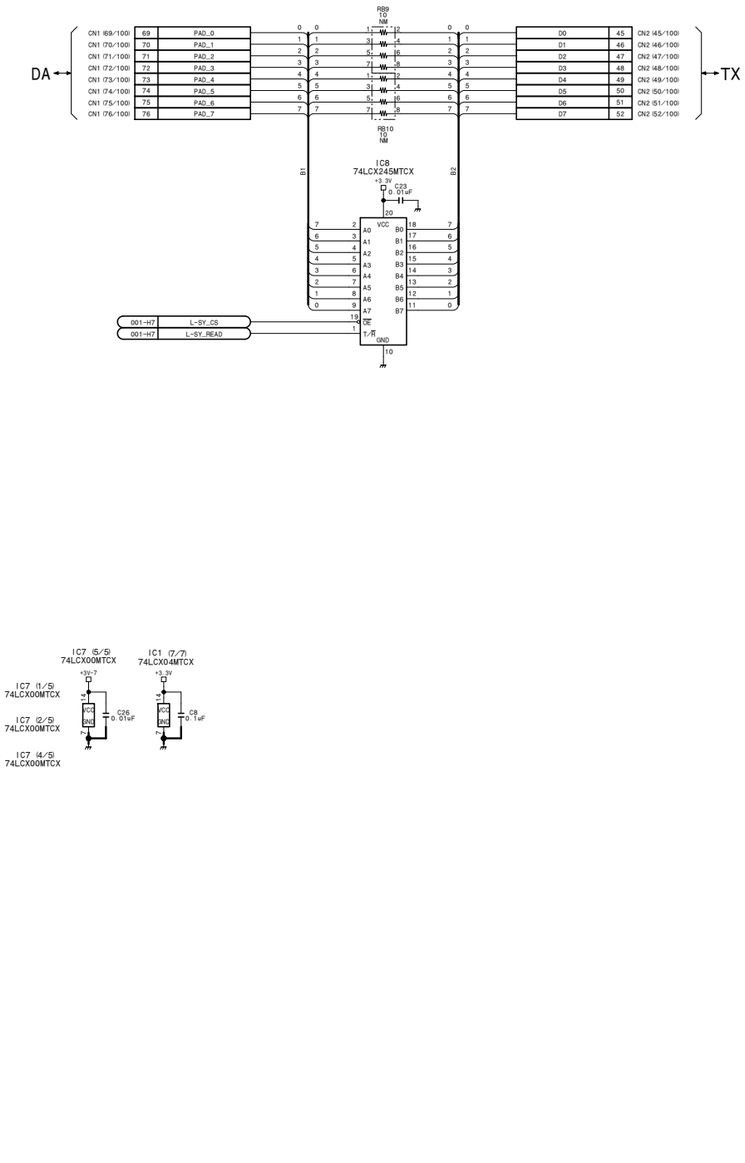


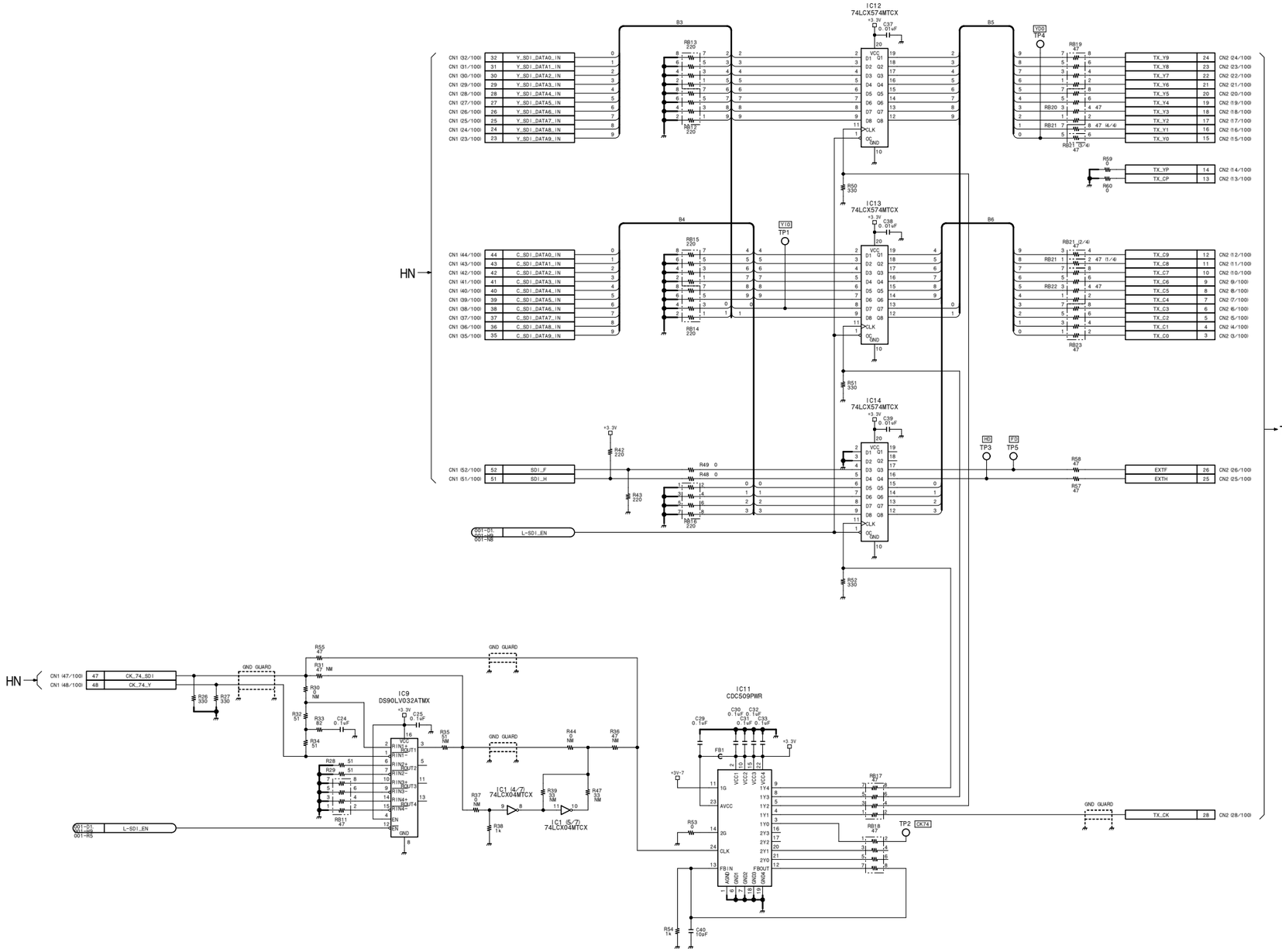


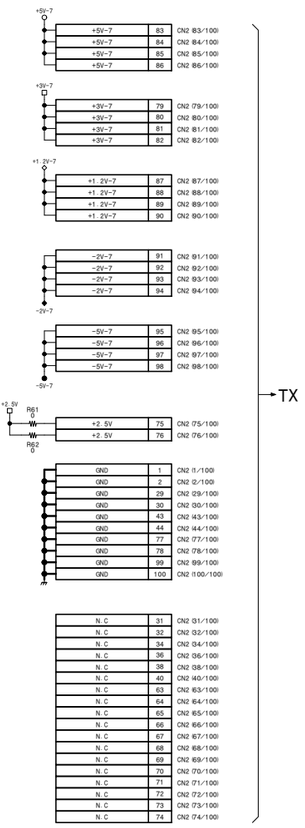
DA-140 (3/3)
BOARD NO. 1-674-900-11
LOT NO. 903-
HDCA-701_DA-140_001

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher





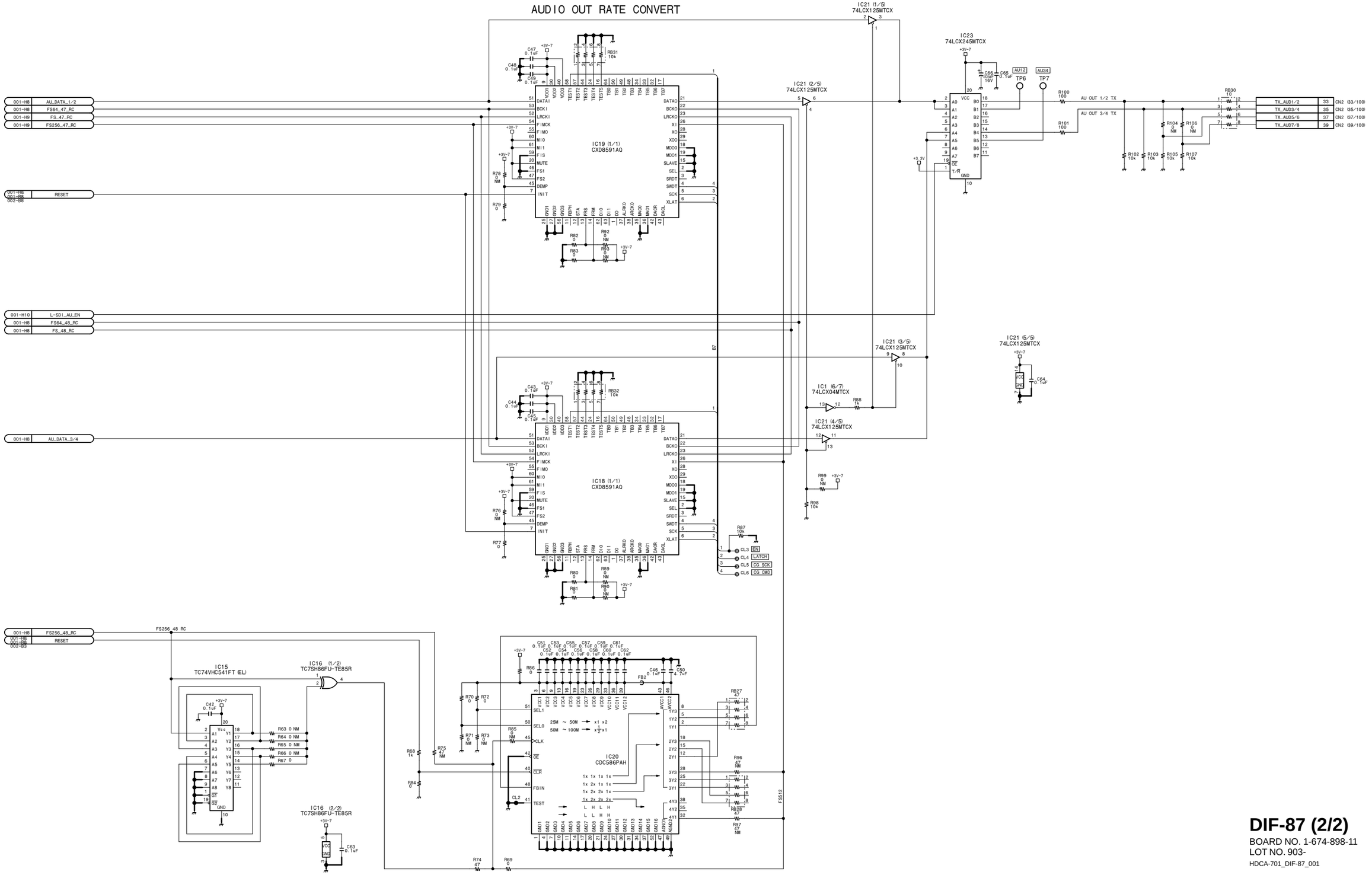




DIF-87 (1/2)

BOARD NO. 1-674-898-11
LOT NO. 903-
HDCA-701_DIF-87_001

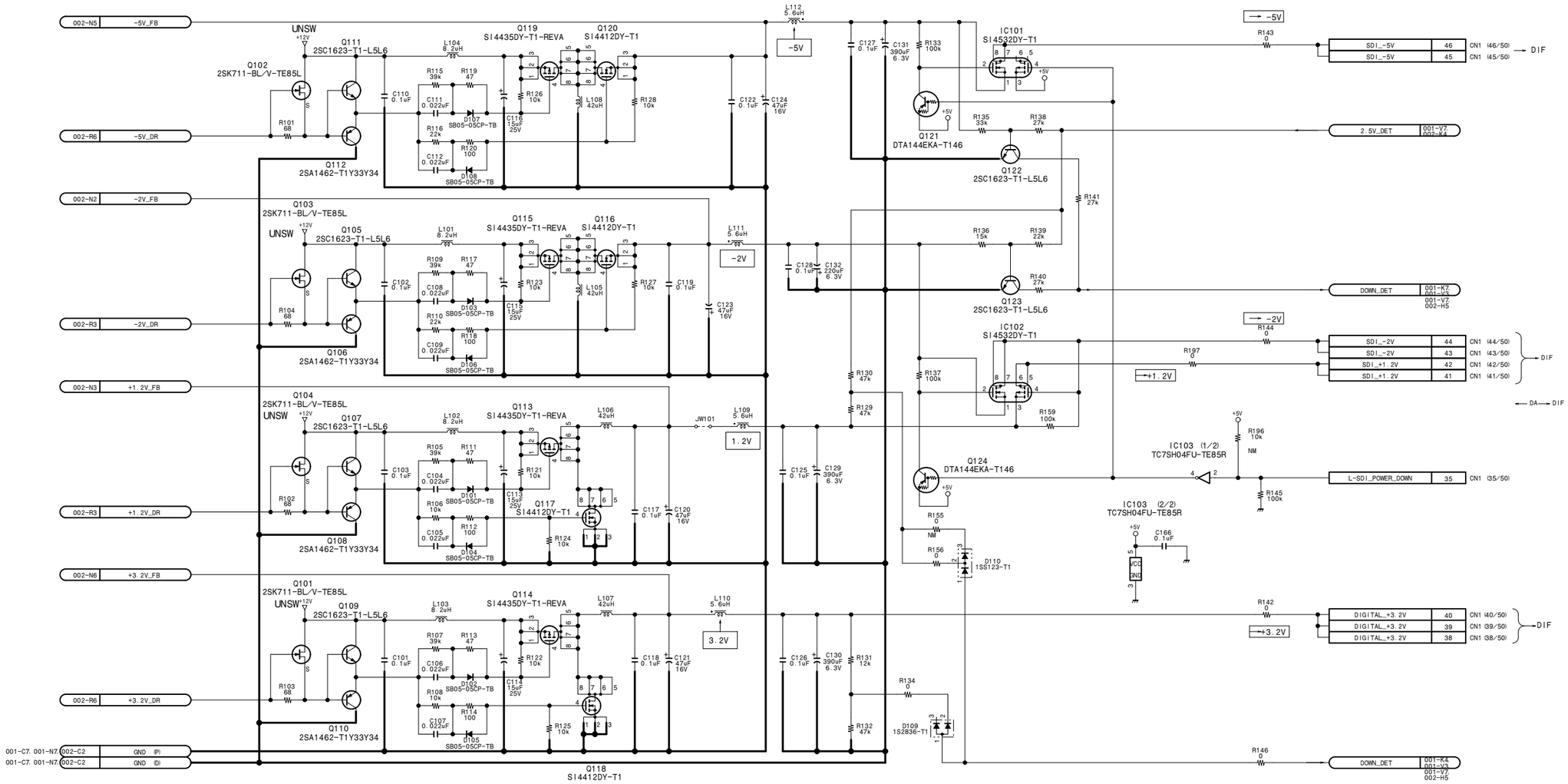
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



DIF-87 (2/2)
BOARD NO. 1-674-898-11
LOT NO. 903-
HDCA-701_DIF-87_001

RE-173 (1/2)

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher



6-20

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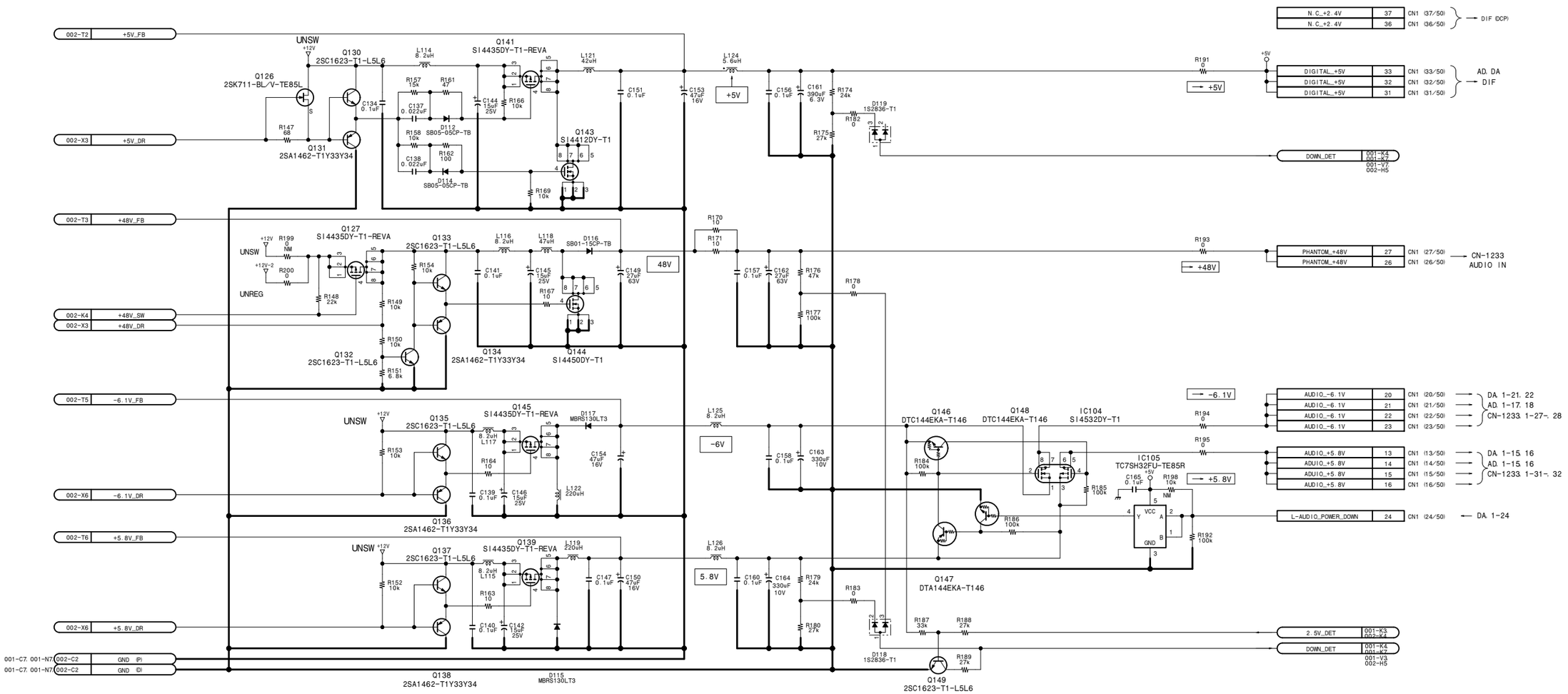
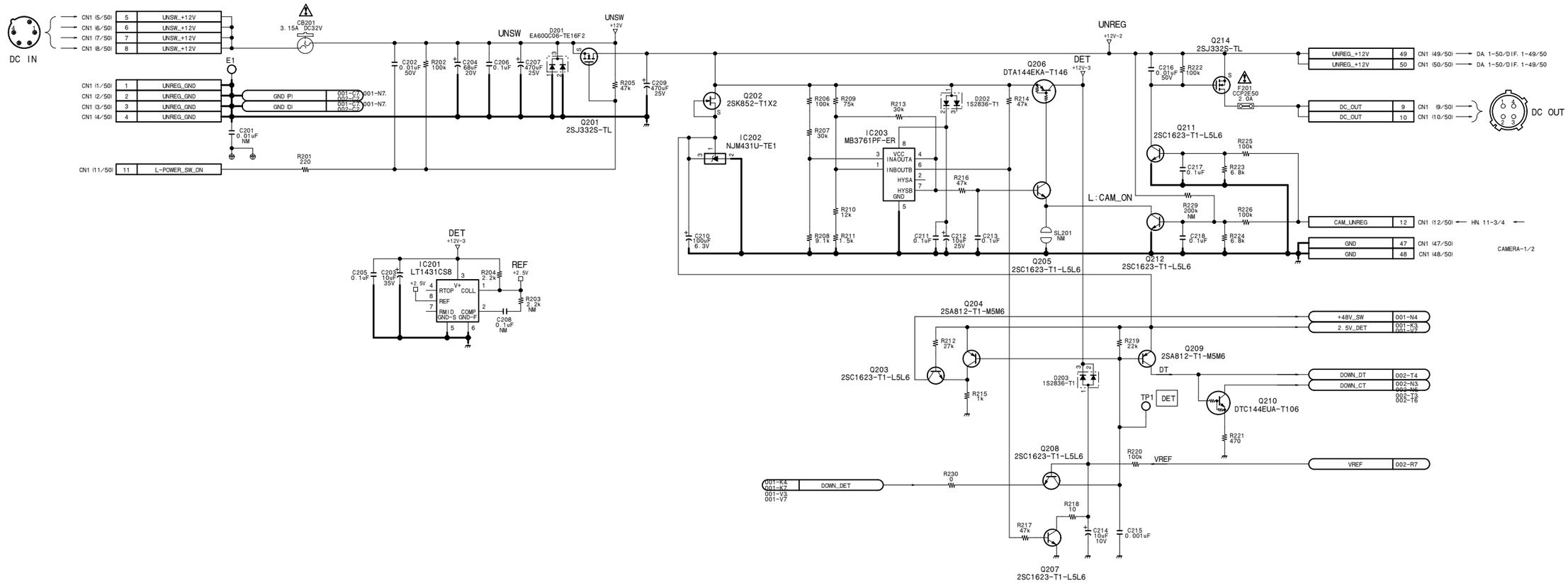


RE-173 (1/2)
BOARD NO. 1-674-899-11
LOT NO. 903-
HDCA-701_RE-173_001

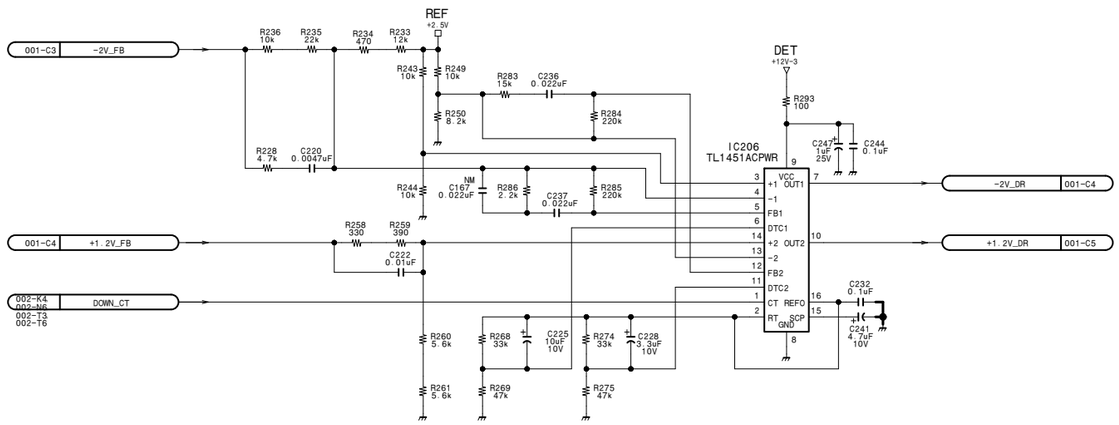
RE-173 (2/2)

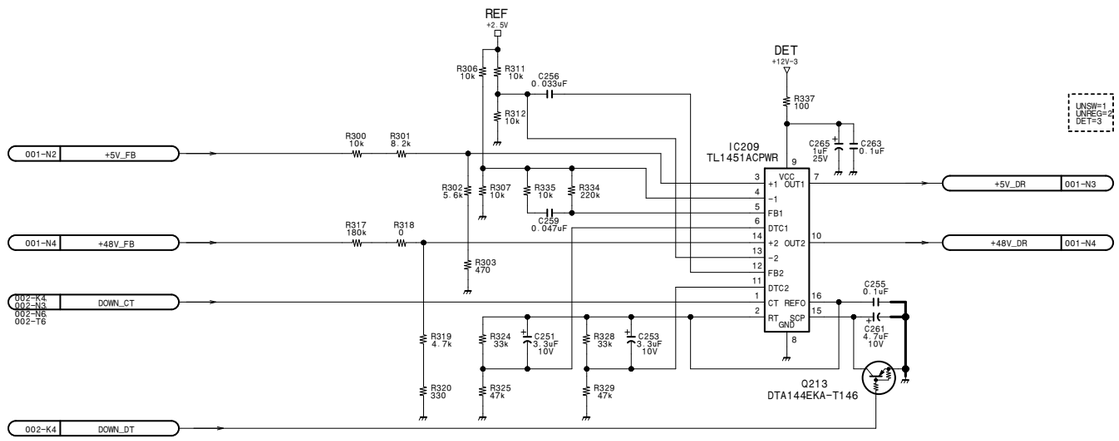
HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

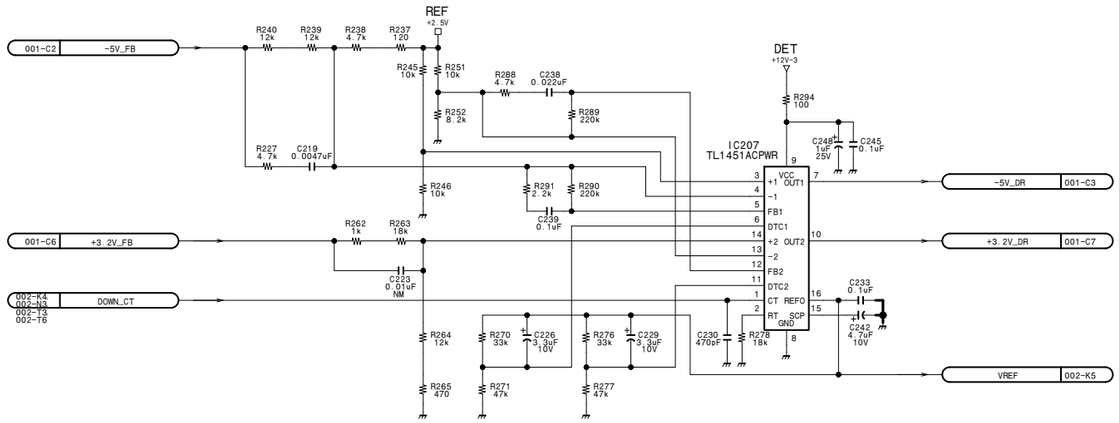


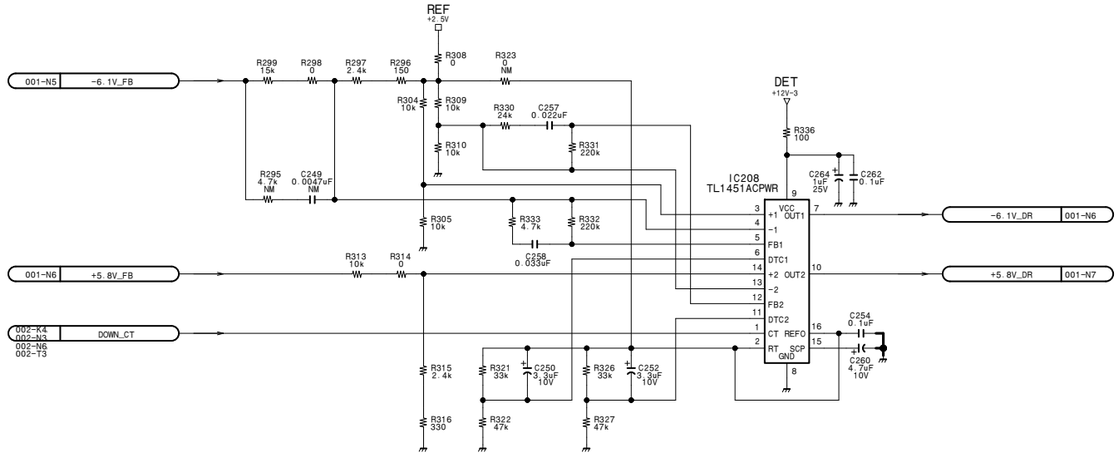
6-22

RE-173 (2/2)









RE-173 (2/2)
BOARD NO. 1-674-899-11
LOT NO. 903-
HDCA-701_RE-173_001

HDCA-701 (J) : S/N 10001 and Higher
HDCA-701 (UC) : S/N 30001 and Higher

DA-140

CN101

	AUDIO_GND	50	AUDIO_GND	49	
HN-261 (502)	CA_CMD_RX	48	CA_CMD_TX	47	HN-261 (502)
	DIGITAL_GND	46	DIGITAL_GND	45	
HN-261 (502)	FS_47_SDI	44	FS64_47_SDI	43	HN-261 (502)
	FS256_47_SDI	42	SDI_F	41	HN-261 (501)
	DIGITAL_GND	40	DIGITAL_GND	39	HN-261 (502)
DIF-87	DIF_DATA_BUS_7	38	DIF_DATA_BUS_6	37	DIF-87
	DIF_DATA_BUS_5	36	DIF_DATA_BUS_4	35	
	DIF_DATA_BUS_3	34	DIF_DATA_BUS_2	33	
	DIF_DATA_BUS_1	32	DIF_DATA_BUS_0	31	
	DIF_STRB	30	DIF_CS	29	
	DIF_STAT1	28	DIF_STAT0	27	
	DIF_RESET	26	L_SDI_AUDIO_MUTE	25	
RE-173	DIGITAL_+5V	24	DIGITAL_+5V	23	RE-173
AD-119 (402)	SCI_CLK	22	SCI_DATA	21	AD-119 (402)
	SCI_LCD_CE	20	SCI_LCD_INH	19	
RE-173	UNREG_+12V	18	L_SDI_POWER_DOWN	17	RE-173
	L_AUDIO_POWER_DOWN	16	L_POWER_DOWN_MODE	15	AD-119 (401), DA
	AUDIO_-6.1V	14	AUDIO_-6.1V	13	RE-173
HN-261 (502)	CAM_AU_DATA_1/2	12	CAM_AU_DATA_3/4	11	HN-261 (501)
	DIGITAL_GND	10	DIGITAL_GND	9	
RE-173	AUDIO_+5.8V	8	AUDIO_+5.8V	7	RE-173
AD-119 (402)	H_POWER_ON_RESET	6	L_EMPHASIS_ON	5	AD-119 (402)
	L_AUDIO_MUTE	4	H_CH1-2/L_CH3-4	3	AD-119 (401)
AD-119 (401)	L_CH-1/CH-3	2	L_CH-2/CH-4	1	

RE-173

CN201

	UNREG_+12V	50	UNREG_+12V	49	DA-140, DIF-87
	GND	48	GND	47	
DIF-87	SDI_-5V	46	SDI_-5V	45	DIF-87
	SDI_-2V	44	SDI_-2V	43	
	SDI_+1.2V	42	SDI_+1.2V	41	
	DIGITAL_+3.2V	40	DIGITAL_+3.2V	39	
	DIGITAL_+3.2V	38	DIF_+2.4V	37	
	DIF_+2.4V	36	L_SDI_POWER_DOWN	35	DA-140
	DIGITAL_GND	34	DIGITAL_+5V	33	AD-119 (402)
AD_DA_DIF	DIGITAL_+5V	32	DIGITAL_+5V	31	DA-140, DIF-87
	DIGITAL_GND	30	DIGITAL_GND	29	
	DIGITAL_GND	28	PHANTOM_+48V	27	CN-1233
CN-1233	PHANTOM_+48V	26	AUDIO_GND	25	
DA-140	L_AUDIO_POWER_DOWN	24	AUDIO_-6.1V	23	CN-1233
	AUDIO_-6.1V	22	AUDIO_-6.1V	21	
	AUDIO_-6.1V	20	AUDIO_GND	19	
	AUDIO_GND	18	AUDIO_GND	17	
DA-140	AUDIO_+5.8V	16	AUDIO_+5.8V	15	CN-1233
	AUDIO_+5.8V	14	AUDIO_+5.8V	13	
HN-261 (502)	CAM_UNREG	12	L_POWER_SW_ON	11	AD-119 (401)
DC OUT (704)	DC_OUT	10	DC_OUT	9	DC OUT (704)
HDW-700 (703)	UNSW_+12V	8	UNSW_+12V	7	HDW-700 (703)
	UNSW_+12V	6	UNSW_+12V	5	
	UNREG_GND	4	UNREG_GND	3	
	UNREG_GND	2	UNREG_GND	1	

DIF-87

CN301

	GND	100	GND	99	
	GND	98	GND	97	
RE-173	DIGITAL_+3.2V	96	DIGITAL_+3.2V	95	RE-173
	DIGITAL_+3.2V	94	DIGITAL_+3.2V	93	
	SDI_+1.2V	92	SDI_+1.2V	91	
	SDI_+1.2V	90	SDI_+1.2V	89	
	SDI_-2V	88	SDI_-2V	87	
	SDI_-2V	86	SDI_-2V	85	
	SDI_-5V	84	SDI_-5V	83	
	SDI_-5V	82	SDI_-5V	81	
DA-140, RE-173	L_SDI_POWER_DOWN	80	N.C	79	
	L_SDI_AUDIO_MUTE	78	UNREG_+12V	77	
DA-140	DIF_DATA_BUS_7	76	DIF_DATA_BUS_6	75	DA-140
	DIF_DATA_BUS_5	74	DIF_DATA_BUS_4	73	
	DIF_DATA_BUS_3	72	DIF_DATA_BUS_2	71	
	DIF_DATA_BUS_1	70	DIF_DATA_BUS_0	69	
	DIF_STAT1	68	DIF_STAT0	67	
	N.C (CS1)	66	DIF_CS	65	
DA-140	DIF_STRB	64	FS_47_SDI	63	HN-261 (502)
	DIF_RESET	62	FS256_47_SDI	61	
HN-261 (502)	FS64_47_SDI	60	CAM_AU_DATA_3/4	59	
	CAM_AU_DATA_1/2	58	FS_48_SDI	57	
	GND	56	FS256_48_SDI	55	
HN-261 (502)	FS64_48_SDI	54	GND	53	
HN-261 (501)	SDI_F	52	SDI_H	51	HN-261 (501)
	GND	50	GND	49	
HN-261 (501)	CK_74 (Y)	48	CK_74 (SDI)	47	HN-261 (501)
	GND	46	GND	45	
HN-261 (501)	C_SDI_DATA_0	44	C_SDI_DATA_1	43	HN-261X (501)
	C_SDI_DATA_2	42	C_SDI_DATA_3	41	
	C_SDI_DATA_4	40	C_SDI_DATA_5	39	
	C_SDI_DATA_6	38	C_SDI_DATA_7	37	
	C_SDI_DATA_8	36	C_SDI_DATA_9	35	
	GND	34	GND	33	
HN-261 (501)	Y_SDI_DATA_0	32	Y_SDI_DATA_1	31	HN-261 (501)
	Y_SDI_DATA_2	30	Y_SDI_DATA_3	29	
	Y_SDI_DATA_4	28	Y_SDI_DATA_5	27	
	Y_SDI_DATA_6	26	Y_SDI_DATA_7	25	
	Y_SDI_DATA_8	24	Y_SDI_DATA_9	23	
	GND	22	GND	21	
	N.C	20	N.C	19	
	N.C	18	N.C	17	
	N.C	16	N.C	15	
	N.C	14	N.C	13	
	N.C	12	N.C	11	
	N.C	10	N.C	9	
RE-173	DIGITAL_+5V	8	DIGITAL_+5V	7	RE-173
	DIF_+2.4V	6	DIF_+2.4V	5	
	GND	4	GND	3	
	GND	2	GND	1	

AD-119

CN401

1	H_CH1-2/L_CH3-4	DA-140
2	L_CH-1/CH-3	
3	L_CH-2/CH-4	
4	AUDIO_GND	
5	AUDIO_GND	
6	CH-3_MIC/LINE (X)	CN-1233
7	CH-3_MIC/LINE (Y)	
8	CH-3_MIC/LINE (G)	
9	AUDIO_GND	
10	CH-4_MIC/LINE (X)	CN-1233
11	CH-4_MIC/LINE (Y)	
12	CH-4_MIC/LINE (G)	
13	AUDIO_GND	
14	AUDIO_GND	
15	AUDIO_+5.8V	RE DA CN-1233
16	AUDIO_+5.8V	
17	AUDIO_-6.1V	
18	AUDIO_-6.1V	
19	L_POWER_DOWN_MODE	DA-140
20	L_POWER_SW_ON	RE-173

CN402

1	SCI_LCD_INH	DA-140
2	SCI_LCD_CE	
3	SCI_CLK	
4	SCI_DATA	
5	DIGITAL_GND	
6	DIGITAL_GND	
7	FS256_47_SDI	DA-140
8	FS64_47_SDI	
9	FS_47_SDI	
10	DIGITAL_GND	
11	DIGITAL_GND	
12	DIGITAL_+5V	RE-173
13	DIGITAL_+5V	
14	L_AUDIO_MUTE	DA-140
15	H_POWER_ON_RESET	
16	ADP_AU_DATA_3/4	HN-261 (502)
17	DIGITAL_GND	
18	DIGITAL_GND	
19	N.C	
20	L_EMPHASIS_ON	DA-140

HN-261

CN501

1	GND	
2	Y_SDI_DATA_9	DIF-87
3	Y_SDI_DATA_8	
4	Y_SDI_DATA_7	
5	Y_SDI_DATA_6	
6	Y_SDI_DATA_5	
7	Y_SDI_DATA_4	
8	Y_SDI_DATA_3	
9	Y_SDI_DATA_2	
10	Y_SDI_DATA_1	
11	Y_SDI_DATA_0	
12	GND	
13	C_SDI_DATA_9	DIF-87
14	C_SDI_DATA_8	
15	C_SDI_DATA_7	
16	C_SDI_DATA_6	
17	C_SDI_DATA_5	
18	C_SDI_DATA_4	
19	C_SDI_DATA_3	
20	C_SDI_DATA_2	
21	C_SDI_DATA_1	
22	C_SDI_DATA_0	
23	N.C (SKIN GATE (SDI))	
24	GND	
25	CK_74 (SDI)	DIF-87
26	CK_74 (Y)	

28 27

CN502

1	SDI_F	DIF-87
2	SDI_H	
3	FS256_48_SDI	DA-140, DIF-87
4	FS64_48_SDI	
5	FS_48_SDI	
6	ADP_AU_DATA_3/4	AD-119 (402)
7	CAM_AU_DATA_3/4	DA-140, DIF-87
8	CAM_AU_DATA_1/2	
9	FS256_47_SDI	
10	FS64_47_SDI	C10 100pF
11	FS_47_SDI	
12	CA_CMD_RX	DA-140
13	CA_CMD_TX	
14	N.C (CCU H)	
15	GND	
16	N.C (CCU_F)	
17	N.C (CCU RET Pb)	
18	N.C (CCU RET Pb GND)	
19	N.C (CCU RET Pr)	
20	N.C (CCU RET Pr GND)	
21	N.C (CCU RET Y)	
22	N.C (CCU RET Y GND)	
23	GND	
24	N.C (INCOM)	
25	CAM_UNREG	
26	GND	DIF-87

28 27

DA-140

CN801

1	MONI_OUT_L (X)	CN-1233
2	MONI_OUT_L (Y)	
3	MONI_OUT_L (G)	
4	MONI_OUT_R (X)	
5	MONI_OUT_R (Y)	
6	MONI_OUT_R (G)	

CN-1233

CN601

1	CH-3_MIC/LINE (X)	AD-119 (401)
2	CH-3_MIC/LINE (Y)	
3	CH-3_MIC/LINE (G)	
4	AUDIO_GND	
5	AUDIO_GND	
6	CH-4_MIC/LINE (X)	AD-119 (401)
7	CH-4_MIC/LINE (Y)	
8	CH-4_MIC/LINE (G)	
9	AUDIO_GND	
10	AUDIO_GND	
11	MONI_OUT_L (X)	DA-140 (801)
12	MONI_OUT_L (Y)	
13	MONI_OUT_L (G)	
14	AUDIO_GND	
15	AUDIO_GND	
16	MONI_OUT_R (X)	DA-140 (801)
17	MONI_OUT_R (Y)	
18	MONI_OUT_R (G)	
19	AUDIO_GND	
20	AUDIO_GND	
21	L_AUDIO_MUTE	DA-140, AD-119 (402)
22	H_POWER_ON_RESET	
23	PHANTOM_+48V	RE-173
24	PHANTOM_+48V	
25	AUDIO_GND	
26	AUDIO_GND	
27	AUDIO_-6.1V	RE-173, DA-140
28	AUDIO_-6.1V	AD-119 (401)
29	AUDIO_GND	
30	AUDIO_GND	
31	AUDIO_+5.8V	RE-173, DA-140
32	AUDIO_+5.8V	AD-119 (401)
33	AUDIO_GND	
34	AUDIO_GND	
35	AUDIO_GND	
36	AUDIO_GND	
37	AUDIO_GND	
38	AUDIO_GND	
39	AUDIO_GND	
40	N.C	
41	N.C (RET VIDEO (G))	
42	N.C (RET VIDEO (G))	
43	N.C (RET VIDEO (X))	
44	N.C (RET VIDEO (X))	
45	N.C (VTR SAVE/STANBY)	
46	N.C (VTR SAVE/STANBY)	
47	N.C (VTR START/STOP)	
48	N.C (VTR START/STOP)	
49	N.C (RECORD TALLY)	
50	N.C (RECORD TALLY)	

EXDC IN

CN701

1	BATT_IN (+)	BATT IN (702)
2	BATT_IN (+)	
3	BATT_IN (+)	
4	UNSW_+12V	HDW-700/700A RE-173
5	UNSW_+12V	
6	UNSW_+12V	
7	UNREG_GND	
8	UNREG_GND	
9	UNREG_GND	

C1 0.001uF

BATTERY IN

CN702

1	BATT_IN (+)	EXDC IN (701)
2	BATT_IN (+)	
3	BATT_IN (+)	
4	UNREG_GND	
5	UNREG_GND	
6	BATT_REM	HDW-700/700A
7	BATT_ID	
8	LIGHT_CONT	

C2 0.001uF

HDW-700/700A

CN703

1	UNSW_+12V	BATT IN (701) RE-173
2	UNSW_+12V	
3	UNSW_+12V	
4	UNREG_GND	
5	UNREG_GND	
6	UNREG_GND	
7	BATT_ID	BATT IN (702)
8	BATT_REM	
9	LIGHT_CONT	

C3 0.001uF

DC OUT

CN704

1	DC_OUT	RE-173
2	DC_OUT	
3	UNREG_GND	
4	UNREG_GND	

C4 0.1uF, C5 0.1uF, C6 0.1uF, C7 0.1uF, C8 0.1uF, C9 0.1uF

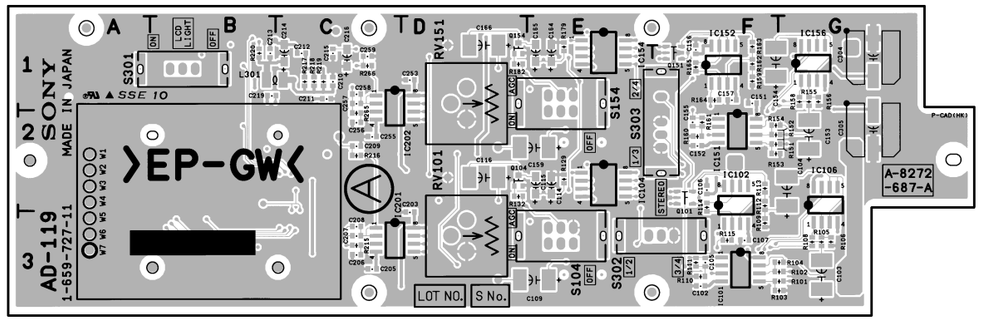
UNREG_+12V

W1 GND
W2 UNREG_GND
W3 AUDIO_GND
W4 DIGITAL_GND

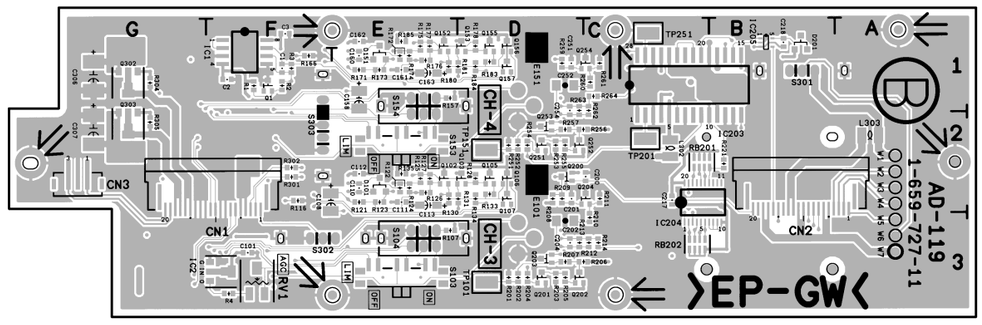
MB-851
BOARD NO. 1-674-901-12
LOT NO. 903-
HDCA-701_MB-851_002

AD-119, CN-1233/1233A

Section 7
Board Layouts



AD-119 -A SIDE-
SUFFIX: -11



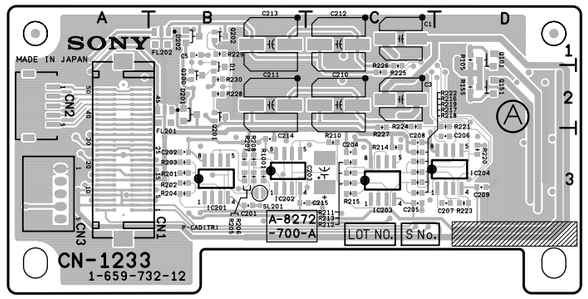
AD-119 -B SIDE-
SUFFIX: -11

AD-119 (1-659-727-11)

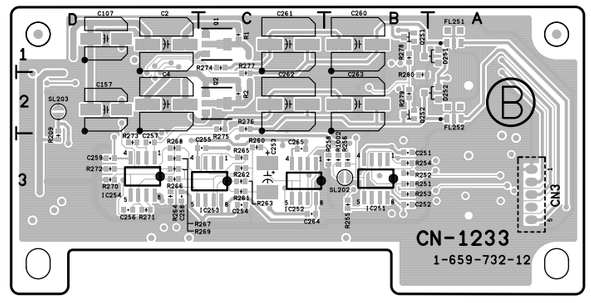
C1	*F1	C161	*E1	C254	*D1	IC154	E1	Q202	*D3	R116	*F2	R164	F1	R212	*C3	RB201	*C2
C2	*F1	C162	*E1	C255	C2	IC156	G1	Q203	*D3	R121	*E2	R165	F1	R213	*D3	RB202	*C3
C3	*F1	C163	*E1	C256	C2	IC201	C3	Q204	*C2	R122	*E2	R166	*F1	R214	*C3		
C101	*F3	C164	E1	C257	C1	IC202	C1	Q251	*D2	R123	*E2	R171	*E1	R215	C3	RV1	*F3
C102	F3	C165	E1	C258	C1	IC203	*C1	Q252	*D2	R124	*E2	R172	*E1	R216	C2	RV101	D3
C103	G3	C166	D1	C259	C1	IC204	*C2	Q253	*D2	R125	*E2	R173	*E1	R217	C1	RV151	D1
C104	G2	C200	*C2	C304	G1	IC205	*B1	Q254	*C1	R126	*E2	R174	*E1	R218	C1		
C105	F3	C201	*D2	C305	G2			Q302	*G1	R127	*E2	R175	*E1	R219	C1	S103	*E3
C106	F2	C202	*D3	C306	*G1	L301	B1	Q303	*G2	R128	*D2	R176	*E1	R220	B1	S104	E3
C107	F3	C203	D3	C307	*G2	L302	*C2			R129	E2	R177	*E1	R221	*B2	S153	*E2
C108	*F2	C204	*D3			L303	*A2	R1	*F1	R130	*E2	R178	*D1	R251	*D2	S154	E1
C109	E3	C205	C3	CN1	*F2			R2	*F1	R131	*D2	R179	E1	R252	*D2	S301	B1
C110	*E2	C206	C3	CN2	*B2	Q1	*F1	R3	*F1	R132	D2	R180	*E1	R253	*D2	S302	F3
C111	*E2	C207	C3	CN3	*G2	Q101	F2	R4	*F3	R133	*D2	R181	*D1	R254	*D2	S303	F2
C112	*E2	C208	C3			Q102	*E2	R101	G3	R134	*D2	R182	D1	R255	*D2		
C113	*E2	C209	C2	D101	*E2	Q103	*D2	R102	G3	R135	*E2	R183	*D1	R256	*C2	TP101	*D3
C114	E2	C210	C1	D151	*E1	Q104	D2	R103	G3	R151	F2	R184	*D1	R257	*D2	TP151	*D2
C115	E2	C211	C1	D201	*B1	Q105	*D2	R104	G3	R152	F2	R185	*E1	R259	*D1		
C116	D2	C212	C1			Q106	*D2	R105	G3	R153	F2	R201	*D3	R260	*C1	*: B SIDE	
C151	F1	C213	B1	E101	*D2	Q107	*D2	R106	G3	R154	F2	R202	*D3	R261	*C1		
C152	F2	C214	C1			Q151	F1	R107	*E3	R155	G1	R203	*D3	R262	*C1		
C153	G2	C215	C1	IC1	*F1	Q152	*E1	R108	G3	R156	G1	R204	*D3	R263	*D1		
C154	F1	C216	C1	IC2	*F3	Q153	*D1	R109	F3	R157	*E1	R205	*D3	R264	*C1		
C155	F2	C217	*C2	IC101	F3	Q154	D1	R110	F3	R158	G1	R206	*C3	R265	C2		
C156	F1	C218	*B1	IC102	F2	Q155	*D1	R111	F3	R159	F1	R207	*D3	R266	C1		
C157	F1	C219	B1	IC104	E2	Q156	*D1	R112	F2	R160	F2	R208	*D2	R301	*F2		
C158	*E1	C251	*D1	IC106	G2	Q157	*D1	R113	F2	R161	F2	R209	*D2	R302	*F2		
C159	E2	C252	*D1	IC151	F2	Q200	*D2	R114	F2	R162	F1	R210	*C3	R304	*G1		
C160	*E1	C253	D1	IC152	F1	Q201	*D3	R115	F3	R163	F1	R211	*C2	R305	*G2		

CN-1233/1233A (1-659-732-12)

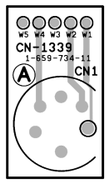
C1	C1	IC101	*D3	R212	C3												
C2	*C1	IC151	*B3	R213	C3												
C3	C2	IC201	B3	R214	C3												
C4	*C2	IC202	B3	R215	C3												
C5	B1	IC203	C3	R216	C3												
C101	*C3	IC204	D3	R217	C3												
C102	*D3	IC251	*B3	R218	C3												
C103	*D3	IC252	*B3	R219	C3												
C105	*C3	IC253	*C3	R220	D3												
C106	*D3	IC254	*D3	R221	D2												
C107	*D1	IC301	D3	R222	C3												
C108	*C3	IC302	D3	R223	D3												
C109	*D3	IC351	D3	R224	C2												
C110	*D3			R225	C2												
C111	*C3	J301	*D3	R226	C2												
C112	*D3			R227	C2												
C113	*C3	L101	*C3	R228	B2												
C151	*B3	L102	*D3	R229	B1												
C152	*C3	L151	*B3	R230	B2												
C153	*B3	L152	*C3	R251	*B3												
C155	*B3			R252	*B3												
C156	*C3	Q1	*C1	R253	*B3												
C157	*D2	Q2	*C2	R254	*B3												
C158	*B3	Q101	D1	R255	*B3												
C159	*C3	Q151	D2	R256	*B3												
C160	*C3	Q201	B2	R258	*B3												
C161	*B3	Q202	B1	R260	*C3												
C162	*C3	Q251	*B1	R261	*C3												
C163	*B3	Q252	*B2	R262	*C3												
C201	B3	Q300	B2	R263	*C3												
C202	B3	Q301	D2	R264	*C3												
C203	C3	Q302	D2	R265	*C3												
C204	C3			R266	*C3												
C205	C3	R1	*C1	R267	*C3												
C206	D3	R2	*C2	R268	*C3												
C207	D3	R101	*C3	R269	*C3												
C208	C3	R102	*C3	R270	*D3												
C209	D3	R103	*C3	R271	*D3												
C210	C2	R104	*D3	R272	*D3												
C211	B2	R105	D1	R273	*D3												
C212	C1	R106	*C3	R274	*C2												
C213	B1	R107	*C3	R275	*C3												
C214	B3	R108	*C3	R276	*C3												
C215	B3	R109	*D3	R277	*C2												
C251	*B3	R110	*D3	R278	*B1												
C252	*B3	R111	*D3	R279	*B2												
C253	*C3	R112	C3	R280	*B2												
C254	*C3	R113	D3	R301	D3												
C255	*C3	R114	C3	R302	D3												
C256	*D3	R115	*D3	R303	D3												
C257	*D3	R116	D3	R304	D3												
C258	*C3	R117	*D3	R305	D3												
C259	*D3	R118	C3	R306	*D3												
C260	*B1	R119	D3	R307	D2												
C261	*B1	R120	*D3	R351	D2												
C262	*B2	R121	*D3	R352	D3												
C263	*B2	R122	*C3	R353	D3												
C264	*B3	R123	*D3	R354	D3												
C265	*B3	R151	*B3	R355	D2												
C301	D3	R152	*B3	R356	*D2												
C303	D3	R153	*B3	R357	D2												
C304	*D3	R154	*C3	R1001	B3												
C305	*D3	R155	D2	R1002	*B3												
C306	D3	R156	*B3	R1003	*D3												
C307	D3	R157	*B3	R1004	*D3												
C351	D3	R158	*B3														
C353	D2	R159	*C3	RV301	*D3												
C354	*D3	R160	*C3														
C355	*D3	R161	*C3	S101	D3												
		R162	B3	S151	B3												
CN1	A3	R163	C3														
CN2	A2	R164	B3	*: B SIDE													
CN3	A3	R165	*B3														
CN101	D3	R166	C3														
CN151	B3	R167	*B3														
		R168	B3														
D1	B2	R169	C3														
D101	C3	R170	*C3														
D102	D3	R171	*C3														
D151	B3	R172	*B3														
D152	C3	R173	*C3														
D201	B2	R201	B3														
D202	B1	R202	B3														
D251	*B1	R203	B3														
D252	*B2	R204	B3														
		R205	B3														
FL201	B2	R206	B3														
FL202	B1	R207	B3														
FL251	*A1	R208	B3														
FL252	*A2	R209	*D3														
FL301	*D1	R210	C3														
FL302	*D1	R211	C3														



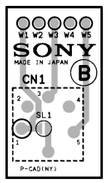
CN-1233/1233A -A SIDE-
SUFFIX: -12



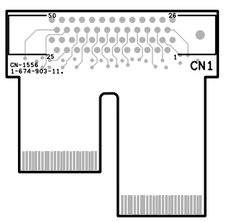
CN-1233/1233A -B SIDE-
SUFFIX: -12



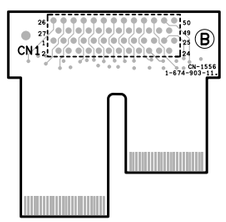
CN-1339 -A SIDE-
SUFFIX: -11



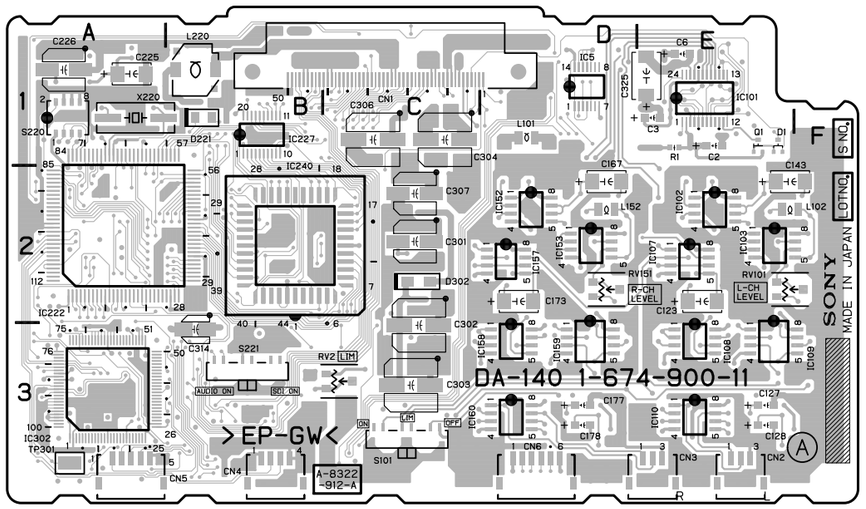
CN-1339 -B SIDE-
SUFFIX: -11



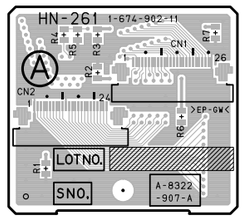
CN-1556 -A SIDE-
SUFFIX: -11



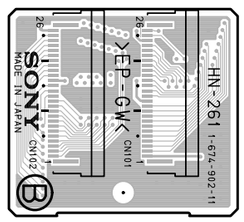
CN-1556 -B SIDE-
SUFFIX: -11



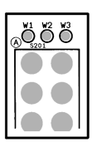
DA-140 -A SIDE-
SUFFIX: -11



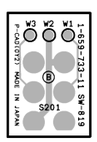
HN-261 -A SIDE-
SUFFIX: -11



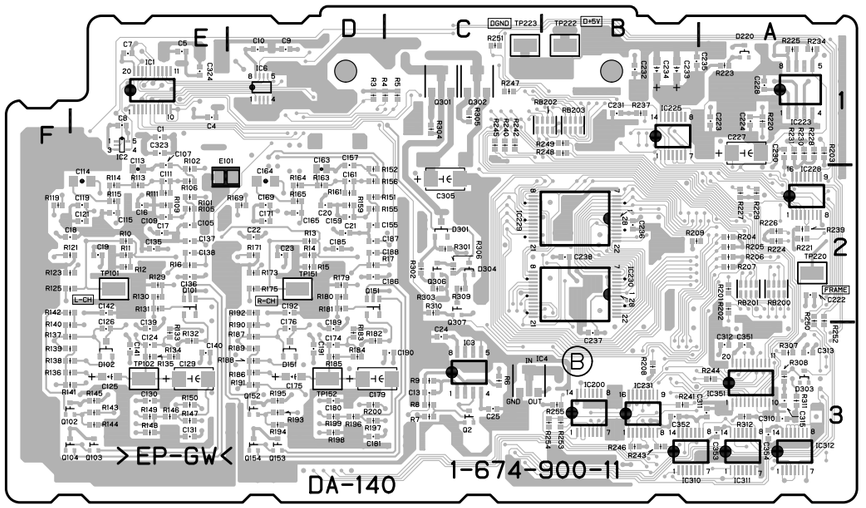
HN-261 -B SIDE-
SUFFIX: -11



SW-819 -A SIDE-
SUFFIX: -11



SW-819 -B SIDE-
SUFFIX: -11



DA-140 -B SIDE-
SUFFIX: -11

DA-140 (1-674-900-11)

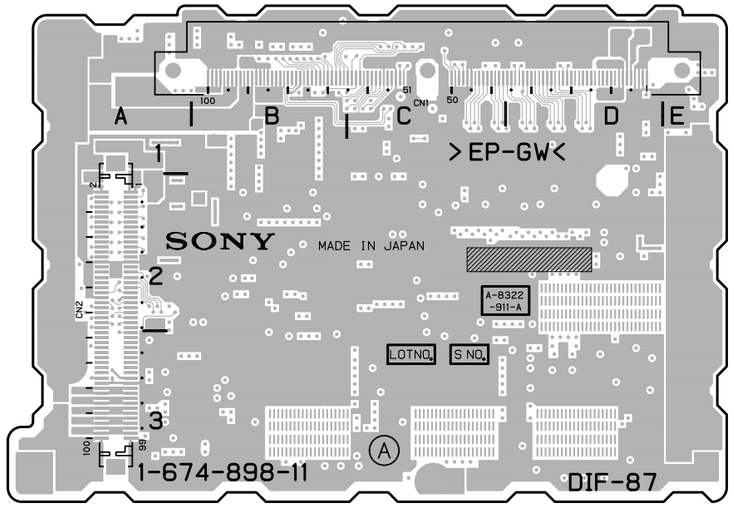
C1	*E1	C302	C3	Q307	*C2	R205	*A2
C2	E1	C303	C3			R206	*A2
C3	E1	C304	C1	R1	E1	R207	*A2
C4	*E1	C305	*C2	R3	*D1	R208	*B3
C5	*E1	C306	C1	R4	*C1	R209	*B2
C6	E1	C307	C2	R5	*C1	R220	*A1
C7	*E1	C310	*A3	R6	*C3	R221	*A2
C8	*E1	C311	*A3	R7	*C3	R223	*A1
C9	*D1	C312	*A3	R8	*C3	R224	*A2
C10	*D1	C313	*A3	R9	*C3	R225	*A1
C13	*C3	C314	B3	R10	*E2	R226	*A2
C16	*E2	C315	*A3	R11	*E2	R227	*A2
C17	*E2	C323	*E1	R12	*E2	R228	*A1
C18	*F2	C324	*E1	R13	*D2	R229	*A2
C19	*E2	C325	E1	R14	*D2	R230	*A1
C20	*D2	C351	*A3	R15	*D2	R231	*A1
C21	*D2	C352	*B3	R16	*E2	R234	*A1
C22	*D2	C353	*A3	R17	*D2	R237	*B1
C23	*D2	C354	*A3	R101	*E2	R239	*A2
C24	*C3			R102	*E2	R240	*C1
C25	*C3	CN1	C1	R105	*E2	R241	*B3
C105	*E2	CN2	E3	R106	*E2	R242	*C1
C107	*E2	CN3	E3	R109	*E2	R243	*B3
C109	*E2	CN4	B3	R111	*E2	R244	*A3
C111	*E2	CN5	A3	R113	*E2	R245	*C1
C113	*E2	CN6	D3	R114	*E2	R246	*B3
C114	*E2			R115	*E2	R247	*C1
C115	*E2	D1	E1	R119	*F2	R248	*B1
C119	*E2	D102	*E3	R121	*F2	R249	*B1
C121	*E2	D151	*D3	R123	*F2	R250	*A2
C123	E2	D220	*A1	R125	*F2	R251	*C1
C124	*E3	D221	B1	R129	*E2	R252	*A2
C125	*E3	D301	*C2	R130	*E2	R253	*B3
C126	*E3	D302	C2	R131	*E2	R254	*B3
C127	E3	D303	*A3	R132	*E3	R255	*B3
C128	E3	D304	*C2	R133	*E3	R301	*C2
C129	*E3			R134	*E3	R302	*C2
C130	*E3	E101	*E2	R135	*E3	R303	*C2
C131	*E3			R136	*F3	R304	*C1
C135	*E2	IC1	*E1	R137	*F3	R305	*C1
C136	*E2	IC2	*E1	R138	*F3	R306	*C2
C137	*E2	IC3	*C3	R139	*F3	R307	*A3
C138	*E2	IC4	*C3	R140	*F3	R308	*A3
C139	*E3	IC5	D1	R141	*F3	R309	*C2
C140	*E3	IC6	*D1	R142	*F2	R310	*C2
C141	*E3	IC101	E1	R143	*E3	R311	*A3
C142	*E2	IC102	E2	R144	*E3	R312	*A3
C143	E2	IC103	E2	R145	*E3		
C155	*D2	IC107	E2	R146	*E3	RB200	*A2
C157	*D2	IC108	E3	R147	*E3	RB201	*A2
C159	*D2	IC109	E3	R148	*E3	RB202	*B1
C161	*D2	IC110	E3	R149	*E3	RB203	*B1
C163	*D2	IC152	D2	R150	*E3		
C164	*D2	IC153	D2	R151	*D2	RV2	C3
C165	*D2	IC157	D2	R152	*D2	RV101	E2
C167	D2	IC158	D3	R155	*D2	RV151	D2
C169	*D2	IC159	D3	R156	*D2		
C171	*D2	IC160	D3	R159	*D2	S101	C3
C173	D2	IC200	*B3	R161	*D2	S220	A1
C174	*D3	IC222	A2	R163	*D2	S221	B3
C175	*D3	IC223	*A1	R164	*D2		
C176	*D3	IC225	*B1	R165	*D2	TP101	*E2
C177	D3	IC227	B1	R169	*D2	TP102	*E3
C178	D3	IC228	*A2	R171	*D2	TP151	*D2
C179	*D3	IC229	*B2	R173	*D2	TP152	*D3
C180	*D3	IC230	*B2	R175	*D2	TP220	*A2
C181	*D3	IC231	*B3	R179	*D2	TP222	*B1
C185	*D2	IC240	B2	R180	*D2	TP223	*C1
C186	*D2	IC302	A3	R181	*D2	TP301	A3
C187	*D2	IC310	*B3	R182	*D3		
C188	*D2	IC311	*A3	R183	*D3	X220	A1
C189	*D3	IC312	*A3	R184	*D3		
C190	*C3	IC351	*A3	R185	*D3	*: B SIDE	
C191	*D3			R186	*D3		
C192	*D2	L101	D1	R187	*D3		
C222	*A2	L102	E2	R188	*D3		
C223	*A1	L152	D2	R189	*D3		
C224	*A1	L220	B1	R190	*D3		
C225	A1			R191	*D3		
C226	A1	Q1	E1	R192	*D2		
C227	*A1	Q2	*C3	R193	*D3		
C228	*A1	Q101	*E2	R194	*D3		
C230	*A1	Q102	*F3	R195	*D3		
C231	*B1	Q103	*E3	R196	*D3		
C232	*B1	Q104	*F3	R197	*D3		
C233	*B1	Q151	*D2	R198	*D3		
C234	*B1	Q152	*D3	R199	*D3		
C235	*B1	Q153	*D3	R200	*D3		
C236	*B2	Q154	*D3	R201	*A2		
C237	*B3	Q301	*C1	R202	*A2		
C238	*B2	Q302	*C1	R203	*A1		
C301	C2	Q306	*C2	R204	*A2		

7-2

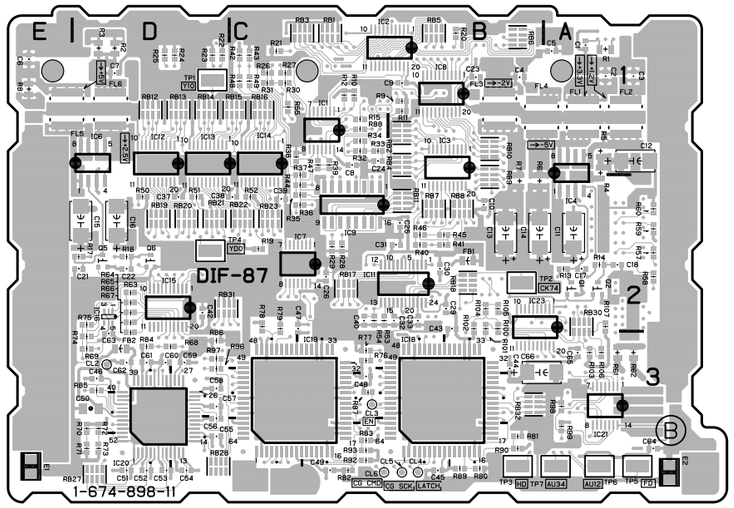
DIF-87, MB-851

DIF-87 (1-674-898-11)

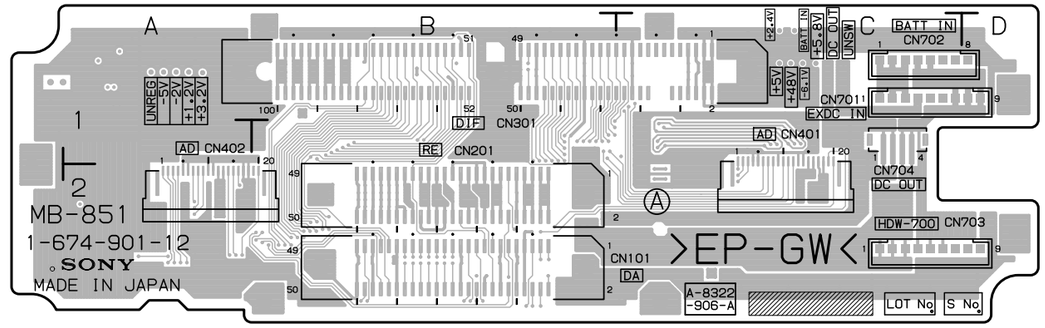
C1	*A1	IC14	*C1	R81	*B3
C2	*A1	IC15	*D2	R82	*C3
C3	*A1	IC16	*D2	R83	*C3
C4	*B1	IC18	*B3	R84	*D3
C5	*A1	IC19	*C3	R85	*D3
C6	*E1	IC20	*D3	R86	*D3
C7	*D1	IC21	*A3	R87	*C3
C8	*C1	IC23	*A2	R88	*C1
C9	*B1			R89	*B3
C10	*B2	Q1	*A2	R90	*B3
C11	*A2	Q2	*A2	R92	*C3
C12	*A1	Q5	*D2	R93	*C3
C13	*B2	Q6	*D2	R96	*D3
C14	*B2			R97	*D3
C15	*D2	R1	*A1	R98	*A3
C16	*D2	R2	*D1	R99	*A3
C17	*A2	R3	*D1	R100	*B2
C18	*A2	R4	*A1	R101	*B2
C21	*D2	R5	*A1	R102	*B2
C22	*D2	R6	*B2	R103	*A3
C23	*B1	R7	*B2	R104	*B2
C24	*C1	R8	*E1	R105	*B2
C25	*B2	R9	*B1	R106	*A3
C26	*C2	R10	*C1	R107	*A2
C29	*B2	R11	*B1		
C30	*B2	R12	*C1	RB1	*C1
C31	*B2	R13	*A2	RB2	*B1
C32	*B2	R14	*A2	RB3	*C1
C33	*B2	R15	*C1	RB4	*B1
C37	*D2	R17	*D2	RB5	*B1
C38	*C2	R18	*D2	RB6	*B1
C39	*C2	R19	*C2	RB7	*B2
C40	*C2	R20	*B1	RB8	*B2
C42	*D2	R21	*C1	RB9	*B2
C43	*B2	R22	*D1	RB10	*B1
C44	*B3	R23	*D1	RB11	*B2
C45	*B3	R24	*D1	RB12	*D1
C46	*D3	R25	*D1	RB13	*D1
C47	*C2	R26	*C1	RB14	*D1
C48	*C3	R27	*C1	RB15	*C1
C49	*C3	R28	*C2	RB16	*C1
C50	*D3	R29	*C2	RB17	*C2
C51	*D3	R30	*C1	RB18	*B2
C52	*D3	R31	*C1	RB19	*D2
C53	*D3	R32	*C1	RB20	*D2
C54	*D3	R33	*C1	RB21	*D2
C55	*D3	R34	*C1	RB22	*C2
C56	*D3	R35	*C2	RB23	*C2
C57	*D3	R36	*C2	RB27	*D3
C58	*D3	R37	*C2	RB28	*D3
C59	*D3	R38	*C1	RB30	*A2
C60	*D3	R39	*C1	RB31	*D2
C61	*D3	R40	*B2	RB32	*B3
C62	*D3	R41	*B2		
C63	*D3	R42	*C1	TP1	*D1
C64	*A3	R43	*C1	TP2	*B2
C65	*A3	R44	*C2	TP3	*B3
C66	*B3	R45	*B2	TP4	*D2
		R46	*B2	TP5	*A3
CL2	*D3	R47	*C1	TP6	*A3
CL3	*C3	R48	*C1	TP7	*A3
CL4	*B3	R49	*C1		
CL5	*B3	R50	*D2	*: B SIDE	
CL6	*C3	R51	*D2		
		R52	*C2		
CN1	C1	R53	*C2		
CN2	A2	R54	*C2		
		R55	*C1		
E1	*E3	R57	*A2		
E2	*A3	R58	*A2		
		R59	*A2		
FB1	*B2	R60	*A2		
FB2	*D3	R61	*A3		
		R62	*A3		
FL1	*A1	R63	*D2		
FL2	*A1	R64	*D2		
FL3	*B1	R65	*D2		
FL4	*B1	R66	*D2		
FL5	*E1	R67	*D3		
FL6	*D1	R68	*D3		
		R69	*D3		
IC1	*C1	R70	*D3		
IC2	*B1	R71	*D3		
IC3	*B1	R72	*D3		
IC4	*A1	R73	*D3		
IC6	*D1	R74	*D3		
IC7	*C2	R75	*D2		
IC8	*B1	R76	*C3		
IC9	*C2	R77	*C3		
IC11	*B2	R78	*C2		
IC12	*D1	R79	*C2		
IC13	*D1	R80	*B3		



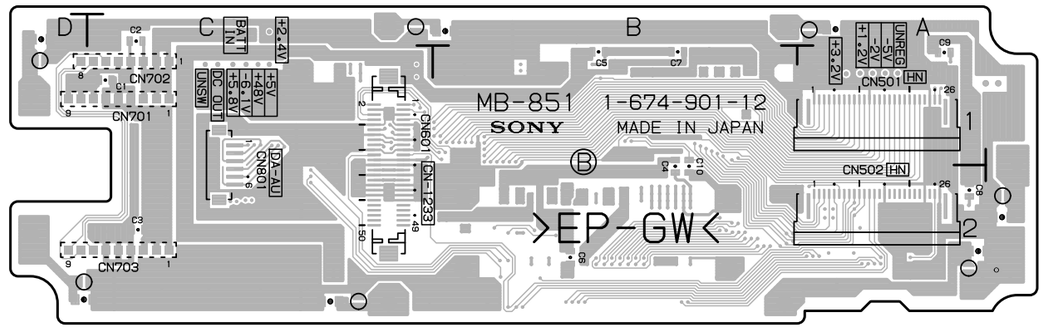
DIF-87 -A SIDE-
SUFFIX: -11



DIF-87 -B SIDE-
SUFFIX: -11



MB-851 -A SIDE-
SUFFIX: -12

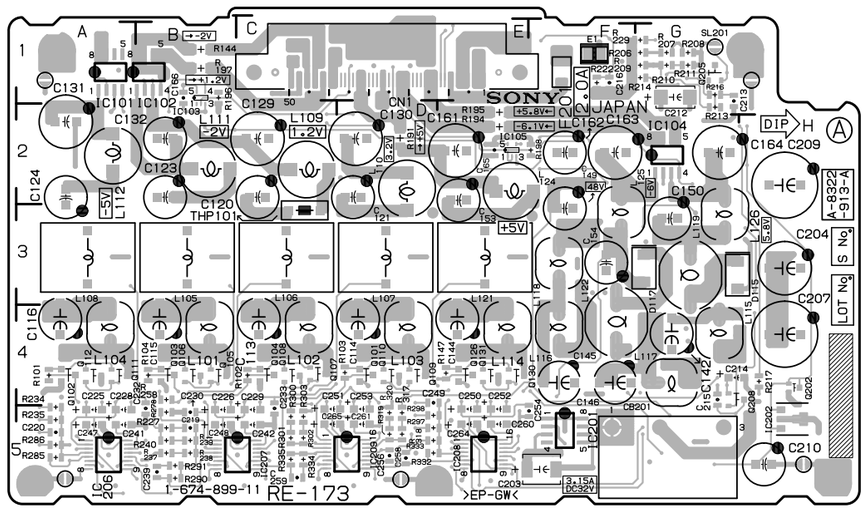


MB-851 -B SIDE-
SUFFIX: -12

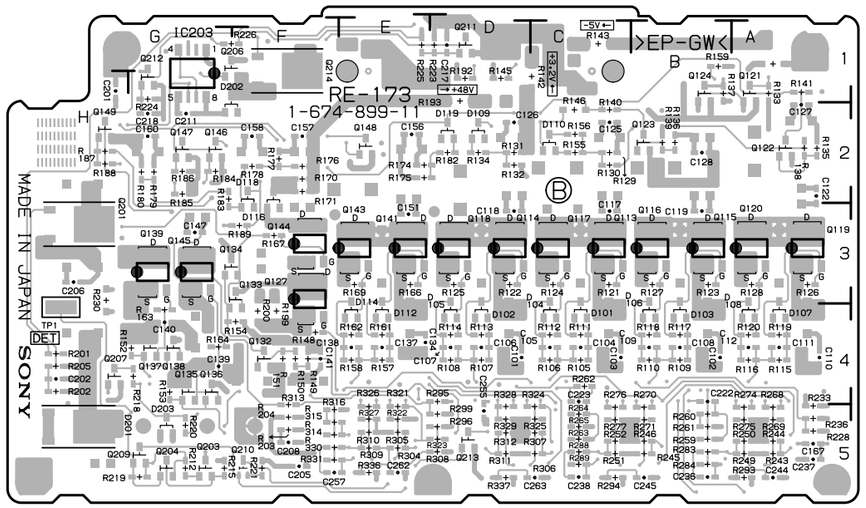
MB-851 (1-674-901-12)

C1	*C1
C2	*C1
C3	*C2
C4	*B2
C5	*B1
C6	*B2
C7	*B1
C8	*A2
C9	*A1
C10	*B2
CN101	B2
CN201	B2
CN301	B1
CN401	C2
CN402	A2
CN501	*A1
CN502	*A2
CN601	*C1
CN701	C1
CN702	C1
CN703	C2
CN704	C1
CN801	*C1

*: B SIDE



RE-173 -A SIDE-
SUFFIX: -11



RE-173 -B SIDE-
SUFFIX: -11

RE-173 (1-674-899-11)

C101	*D4	C241	A5	Q103	B4	R136	*B2	R237	B5
C102	*B4	C242	C5	Q104	C4	R137	*B1	R238	B5
C103	*C4	C244	*A5	Q105	B4	R138	*A2	R239	B5
C104	*C4	C245	*B5	Q106	B4	R139	*B2	R240	B5
C105	*C4	C247	A5	Q107	C4	R140	*C2	R243	*A5
C106	*D4	C248	B5	Q108	C4	R141	*A1	R244	*A5
C107	*D4	C249	D4	Q109	D4	R142	*C1	R245	*B5
C108	*B4	C250	E5	Q110	D4	R143	*C1	R246	*B5
C109	*B4	C251	C5	Q111	A4	R144	B1	R249	*A5
C110	*A4	C252	E5	Q112	A4	R145	*D1	R250	*A5
C111	*A4	C253	D5	Q113	*C3	R146	*C2	R251	*C5
C112	*A4	C254	F5	Q114	*D3	R147	E4	R252	*C5
C113	C4	C255	*D5	Q115	*B3	R148	*F4	R258	B4
C114	D4	C256	D5	Q116	*B3	R149	*F4	R259	*B5
C115	B4	C257	*F5	Q117	*C3	R150	*F4	R260	*B5
C116	A4	C258	D5	Q118	*D3	R151	*F4	R261	*B5
C117	*C3	C259	C5	Q119	*A3	R152	*G4	R262	*C4
C118	*D3	C260	E5	Q120	*A3	R153	*G4	R263	*C5
C119	*B3	C261	D5	Q121	*A1	R154	*F4	R264	*C5
C120	C2	C262	*E5	Q122	*A2	R155	*C2	R265	*C5
C121	D2	C263	*C5	Q123	*B2	R156	*C2	R268	*A5
C122	*A2	C264	E5	Q124	*B1	R157	*E4	R269	*A5
C123	B2	C265	C5	Q126	E4	R158	*E4	R270	*B5
C124	A2			Q127	*F3	R159	*B1	R271	*B5
C125	*C2	CB201	G5	Q130	E4	R161	*E4	R274	*A5
C126	*D2			Q131	E4	R162	*E4	R275	*A5
C127	*A2	CN1	D1	Q132	*F4	R163	*G4	R276	*C5
C128	*B2			Q133	*F3	R164	*G4	R277	*C5
C129	C2	D101	*C4	Q134	*G3	R166	*E3	R278	B5
C130	D2	D102	*D4	Q135	*G4	R167	*F3	R283	*B5
C131	A2	D103	*B4	Q136	*G4	R169	*E3	R284	*B5
C132	B2	D104	*C4	Q137	*G4	R170	*F2	R285	A5
C134	*E4	D105	*D4	Q138	*G4	R171	*F2	R286	A5
C137	*E4	D106	*B4	Q139	*G3	R174	*E2	R288	*C5
C138	*E4	D107	*A4	Q141	*E3	R175	*E2	R289	*C5
C139	*G4	D108	*A4	Q143	*E3	R176	*F2	R290	B5
C140	*G4	D109	*D2	Q144	*F3	R177	*F2	R291	B5
C141	*F4	D110	*C2	Q145	*G3	R178	*F2	R293	*A5
C142	G4	D112	*E4	Q146	*G2	R179	*G2	R294	*C5
C144	E4	D114	*E4	Q147	*G2	R180	*G2	R295	*D4
C145	F4	D115	G3	Q148	*E2	R182	*D2	R296	*D5
C146	F4	D116	*F2	Q149	*H2	R183	*G2	R297	D5
C147	*G3	D117	G3	Q201	*H3	R184	*G2	R298	D5
C149	F3	D118	*F2	Q202	H4	R185	*G2	R299	*D5
C150	G3	D119	*D2	Q203	*G5	R186	*G2	R300	C5
C151	*E3	D201	*H5	Q204	*G5	R187	*H2	R301	C5
C153	E2	D202	*G2	Q205	G1	R188	*H2	R302	C5
C154	F3	D203	*G5	Q206	*G1	R189	*F3	R303	C5
C156	*E2			Q207	*H4	R191	D2	R304	*E5
C157	*F2	E1	F1	Q208	G4	R192	*D1	R305	*E5
C158	*F2			Q209	*G5	R193	*D1	R306	*C5
C160	*G2	F201	F1	Q210	*F5	R194	E2	R307	*C5
C161	E2			Q211	*D1	R195	E2	R308	*D5
C162	F2	IC101	A1	Q212	*G1	R196	B1	R309	*E5
C163	F2	IC102	B1	Q213	*D5	R197	B1	R310	*E5
C164	G2	IC103	B1	Q214	*F1	R198	F2	R311	*D5
C165	E2	IC104	G2			R199	*F4	R312	*D5
C166	B1	IC105	E2	R101	A4	R200	*F4	R313	*F5
C167	*A5	IC201	F5	R102	C4	R201	*H4	R314	*F5
C201	*H1	IC202	H5	R103	D4	R202	*H4	R315	*F5
C202	*H4	IC203	*G1	R104	B4	R203	*F5	R316	*F5
C203	F5	IC206	A5	R105	*C4	R204	*F5	R317	D5
C204	H3	IC207	B5	R106	*C4	R205	*H4	R318	D5
C205	*F5	IC208	E5	R107	*D4	R206	G1	R319	D5
C206	*H3	IC209	C5	R108	*D4	R207	G1	R320	D5
C207	H4			R109	*B4	R208	G1	R321	*E5
C208	*F5	L101	B4	R110	*B4	R209	G1	R322	*E5
C209	H2	L102	C4	R111	*C4	R210	G1	R323	*D5
C210	H5	L103	D4	R112	*C4	R211	G1	R324	*C5
C211	*G2	L104	A4	R113	*D4	R212	*G5	R325	*C5
C212	G1	L105	B3	R114	*D4	R213	G2	R326	*E5
C213	G1	L106	C3	R115	*A4	R214	G1	R327	*E5
C214	G4	L107	D3	R116	*A4	R215	*G5	R328	*D5
C215	G4	L108	A3	R117	*B4	R216	G1	R329	*D5
C216	F1	L109	C2	R118	*B4	R217	H4	R330	*F5
C217	*D1	L110	D2	R119	*A4	R218	*G4	R331	*F5
C218	*G2	L111	B2	R120	*A4	R219	*G5	R332	D5
C219	B5	L112	A2	R121	*C3	R220	*G5	R333	D5
C220	A5	L114	E4	R122	*D3	R221	*F5	R334	C5
C222	*B4	L115	G4	R123	*B3	R222	F1	R335	C5
C223	*C4	L116	F4	R124	*C3	R223	*D1	R336	*E5
C225	A5	L117	G4	R125	*D3	R224	*G1	R337	*D5
C226	B5	L118	F3	R126	*A3	R225	*E1		
C228	A5	L119	G3	R127	*B3	R226	*G1	SL201	G1
C229	C5	L121	E3	R128	*A3	R227	B5		
C230	B5	L122	F4	R129	*C2	R228	*A5	THP101	C3
C232	B5	L124	E2	R130	*C2	R229	G1		
C233	C5	L125	F3	R131	*D2	R230	*H3	TP1	*H4
C236	*B5	L126	G3	R132	*D2	R233	*A5		
C237	*A5			R133	*A1	R234	A5	*: B SIDE	
C238	*C5	Q101	D4	R134	*D2	R235	A5		
C239	B5	Q102	A4	R135	*A2	R236	*A5		

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